

WE
CAPTURE
WHAT
MOVES



Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOURS CO
1F N°6 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000030
Delivery / Item : 80407732 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

E05778
EUCALYPTUS GLOBULUS EO 80/85%

Batch : 0000961633 Inspection lot : 40000776261
Manufacturing date : 09 MAR 2023
Delivered Qty : Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8518		0,8500	0,8580
Specific gravity 25/25°C	0,8486		0,8468	0,8548
Refractive index at 20°C	1,4746		1,4720	1,4760
Refractive index at 25°C	1,4724		1,4698	1,4738
Optical rotation at 20°C	66,36	*	57,00	70,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 15 MAR 2023

Quality Control Department

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Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOU
1F N°6 LN 92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 354431 000010
Delivery / Item : 80407726 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014
Your code: M_0020356
Your description: BERGAMOT EO

M_0020356 BERGAMOT EO

Batch : 0000981627
Inspection lot : 40000776255
Ordered Qty :
Manufacturing date : 09 MAR 2023
Delivered Qty :
Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,9820		0,9550	0,9950
Specific gravity 25/25°C	0,9788		0,9518	0,9918
Refractive index at 20°C	1,5111		1,4900	1,5200
Refractive index at 25°C	1,5089		1,4878	1,5176

Date : 15 MAR 2023

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MANE TAIWAN FRAGRANCES & FLAVOURS CO
1F N°6 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000030
Delivery / Item : 80407732 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

M_0020005
MYRRH

Batch : 0000961633

Inspection lot : 40000776261
Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Delivered Qty :

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8518		0,8500	0,8580
Specific gravity 25/25°C	0,8486		0,8468	0,8548
Refractive index at 20°C	1,4746		1,4720	1,4760
Refractive index at 25°C	1,4724		1,4698	1,4738
Optical rotation at 20°C	66,36	*	57,00	70,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 15 MAR 2023

Quality Control Department

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Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOURS CO
1F N°8 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000150
Delivery / Item : 80407770 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

M.0053845
TEA TREE

Batch : 0000961671

Inspection lot : 40000776299

Manufacturing date : 09 MAR 2023

Delivered Qty :

Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Objective inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8887		0,8540	0,8840
Specific gravity 25/25°C	0,8855		0,8508	0,8808
Refractive index at 20°C	1,4636		1,4540	1,4740
Refractive index at 25°C	1,4614		1,4518	1,4718

Date : 15 MAR 2023

Quality Control Department

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Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOURS CO
1F N°8 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000150
Delivery / Item : 80407770 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

E_9521725
PEPPERMINT

Batch : 0000961671

Inspection lot : 40000776299

Manufacturing date : 09 MAR 2023

Delivered Qty :

Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Objective inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8887		0,8540	0,8840
Specific gravity 25/25°C	0,8855		0,8508	0,8808
Refractive index at 20°C	1,4636		1,4540	1,4740
Refractive index at 25°C	1,4614		1,4518	1,4718

Date : 15 MAR 2023

Quality Control Department

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WHAT
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MANE

MANE (SHANGHAI) Fragrances and Flavours Co., Ltd. No. 612, Shan
Lian Road, Shanghai China
曼氏(上海)香精香料有限公司
上海市宝山区城市工业园区山连路612号

分析报告

CERTIFICATE OF ANALYSIS

E 9426443

CHAMOMILLE FRAGRANCE

Lot No./生产批号: 32319277

Quantity/生产数量:

Production Date/生产日期: June 07, 2023

Best Before/最佳使用期限: June 07, 2024

ORGANOLEPTIC DATA / 感官测定

	Result / 结果	Standard / 标准
Taste/Odour: 香味/香气	Conform 合格	Conform to the target 符合同一型号对样品
Color and Appearance: 色泽和状态	Conform 合格	Conform to the target 符合同一型号对样品

PHYSICO-CHEMICAL DATA / 理化指标

	Result / 结果	Standard / 标准
Refractive Index at 20°C/折光指数(20°C)	1.4094	1.4040 - 1.4140
Specific Gravity 20/20°C/相对密度(20/20°C)	0.9581	0.9500 - 0.9660

Inspected by / 检验员:

王辰越

Checked by / 审核员:

靳锦丽

Approved by / 批准员:

黎丽勉

Inspection Date / 检验日期: June 07, 2023

Issue Date / 报告日期: June 07, 2023

敬请留意: 本文件由系统自动生成, 无手写盖章

曼氏(上海)香精香料有限公司
Conclusion/结论: Qualified/合格
质量检验专用

MANE (SHANGHAI)
FRAGRANCES & FLAVOURS
QUALITY CONTROL
Signature: 朱海燕

WE
CAPTURE
WHAT
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MANE

MANE (SHANGHAI) Fragrances and Flavours Co., Ltd. No. 612, Shan
Lian Road, Shanghai China
曼氏(上海)香精香料有限公司
上海市宝山区城市工业园站山东路612号

分析报告

CERTIFICATE OF ANALYSIS

W1429547

CLARY SAGE FRAGRANCE

Lot No./生产批号: 32310200

Quantity/生产数量:

Production Date/生产日期: June 07, 2023

Best Before/最佳使用期限: June 07, 2024

ORGANOLEPTIC DATA / 感官测定

	Result / 结果	Standard / 标准
Taste/Odour: 香味/香气	Conform 合格	Conform to the target 符合同一型号对照品
Color and Appearance: 色泽和状态	Conform 合格	Conform to the target 符合同一型号对照品

PHYSICO-CHEMICAL DATA / 理化指标

	Result / 结果	Standard / 标准
Refractive Index at 20°C/折光指数(20°C)	1.4607	1.4550 - 1.4650
Specific Gravity 20/20°C/相对密度(20/20°C)	0.9167	0.9070 - 0.9170

Inspected by / 检验员:

王辰越

Checked by / 审核员:

靳锦丽

Approved by / 批准员:

黎丽勉

Inspection Date / 检验日期: June 07, 2023

Issue Date / 报告日期: June 07, 2023

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曼氏(上海)香精香料有限公司
Conducted/检验
Qualified/合格
质量检验专用

MANE (SHANGHAI)
FRAGRANCES & FLAVOURS
QUALITY CONTROL
Signature: 朱海燕



Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOU
1F N°6 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 354431 000130
Delivery / Item : 80407764 000030

Your Reference: FRG23014
Your code: E_9514234
Your description: CYPRESS

Contact : Jesus MARTINEZ

E_9514234
CYPRESS

Batch : 0000961665
Ordered Qty :
Delivered Qty :

Inspection lot : 40000776293
Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Odorless inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8655		0,8560	0,8860
Specific gravity 25/25°C	0,8623		0,8528	0,8828
Refractive index at 20°C	1,4684		1,4590	1,4790
Refractive index at 25°C	1,4662		1,4568	1,4768
Optical rotation at 20°C	30,88	*	17,00	37,00

Date : 15 MAR 2023

Quality Control Department

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Certificate of Analysis

MANE TAIWAN
1F N°8 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 354431 000110
Delivery / Item : 80407758 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014
Your code: E_9514236
Your description: FRANKINCENSE

E_9514236 FRANKINCENSE

Batch : 0000961659
Ordered Qty :
Delivered Qty :
Inspection lot : 40000776287
Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Odorless inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8729		0,8530	0,8830
Specific gravity 25/25°C	0,8697		0,8498	0,8798
Refractive index at 20°C	1,4750		1,4620	1,4820
Refractive index at 25°C	1,4728		1,4598	1,4798
Optical rotation at 20°C	-8,16	°	-23,00	-3,00

Date : 15 MAR 2023

Quality Control Department



CERTIFICATE OF ANALYSIS

MANE

620, route de Grasse
06620 LE BAR SUR LOUP
FRANCE
TEL (33) 04.93.09.70.00
FAX (33) 04.93.42.54.25
Siret 415 550 284 00012

Customer : MANE TAIWAN
Product Reference : GERANIUM * E_9915763

Batch number : 5741096
Quantity :
Manufacturing date : 12/06/2023
Shelf life : 12/06/2024
Purchase Order Number : FRG23022
Customer Remark : /
Product Remark : /

Organoleptical data :

Odor / Taste : COMPARABLE TO STANDARD
Appearance : COMPARABLE TO STANDARD

Physical-Chemical Data :

ANALYSIS	RESULT	SPECIFICATION
Specific gravity 20°C/20°C	0.8966	0.8920/0.8990
Refractive index 20°C	1.4679	1.4620/1.4720
Optical rotation 20°C	-9.20°	-18°/-3°



Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOURS CO
1F N°6 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000090
Delivery / Item : 80407752 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

M_0020345 GRAPEFRUIT EO

Batch : 0000961853 Inspection lot : 40000776281
Delivered Qty : Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8487		0,8450	0,8650
Specific gravity 25/25°C	0,8455		0,8418	0,8618
Refractive index at 20°C	1,4748		1,4650	1,4850
Refractive index at 25°C	1,4726		1,4628	1,4828
Optical rotation at 20°C	96,40	°	90,00	98,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 15 MAR 2023

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MANE TAIWAN FRAGRANCES & FLAVOU
 1F N°6 LN.92, SEC.1, JIANGUO N. RD
 10489 TAIPEI CITY
 TAIWAN

Order / Item : 358726 000020
 Delivery / Item : 80418462 000010
 Contact : Jesus MARTINEZ

Your Reference: FRG23019
 Your code: M_0020655
 Your description: LAVENDER

M_0020655
 LAVENDER

Batch : 0000988825
 Ordered Qty :
 Delivered Qty :

Inspection lot : 890000246023
 Manufacturing date : 15 MAY 2023
 Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Defective inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8809		0,8780	0,8920
Specific gravity 25/25°C	0,8777		0,8750	0,8890
Refractive index at 20°C	1,4601		1,4550	1,4660
Refractive index at 25°C	1,4579		1,4528	1,4638
Optical rotation at 20°C	-8,52	°	-11,00	-7,00
Acid index	0,0		0,0	1,0
Conformity GC polar	Conform	-	Conform / Not conform	
Ursyl acetate (GC)	29,24	%	29,00	41,00
Camphor (GC)	0,59	%	0,10	0,60
Caryophyllene beta (GC)	3,36	%	0,00	5,00
Limonene (GC)	0,43	%	0,10	0,70
Linalool (GC)	33,91	%	21,00	34,00
Terpinen 1 of 4 (GC)	3,83	%	1,00	6,00

Date : 19 MAY 2023

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1F N°6 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000030
Delivery / Item : 80407732 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

M_0064278
LEMON

Batch : 0000961633

Inspection lot : 40000776261
Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Delivered Qty :

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8518		0,8500	0,8580
Specific gravity 25/25°C	0,8488		0,8468	0,8548
Refractive index at 20°C	1,4746		1,4720	1,4760
Refractive index at 25°C	1,4724		1,4698	1,4738
Optical rotation at 20°C	66,36	*	57,00	70,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 15 MAR 2023

Quality Control Department

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Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOU
 1F N°6 LN.92, SEC.1, JIANGUO N. RD
 10489 TAIPEI CITY
 TAIWAN

Order / Item : 358726 000060
 Delivery / Item : 80418474 000010
 Contact : Jesus MARTINEZ

Your Reference: FRG23019
 Your code: M_0020225
 Your description: ORANGE N.1681

M_0020225
 ORANGE N.1681

Batch : 0000986837
 Ordered Qty :
 Delivered Qty :

Inspection lot : 890000246035
 Manufacturing date : 15 MAY 2023
 Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8471		0,8420	0,8500
Specific gravity 25/25°C	0,8439		0,8390	0,8470
Refractive index at 20°C	1,4732		1,4700	1,4760
Refractive index at 25°C	1,4710		1,4680	1,4740
Optical rotation at 25°C	98,24	°	94,00	99,00
Conformity GC polar	Conform	-	Conform / Not conform	
L* (COLORIMETRY)	82,10		79,00	88,00
a* (COLORIMETRY L*a*b*)	0,80		-8,00	13,00
b* (COLORIMETRY L*a*b*)	123,94		120,00	133,00

Date : 19 MAY 2023

Quality Control Department

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Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOU
1F N°6 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 358726 000120 Your Reference: FRG23019
Delivery / Item : 80418492 000010
Contact : Jesus MARTINEZ

M_0020632 PETITGRAIN BIGARADE PARAGUAY

Batch : 0000986855 Inspection lot : 890000246053
Ordered Qty : Manufacturing date : 15 MAY 2023
Delivered Qty : Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Offective inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8904		0,8860	0,8930
Specific gravity 25/25°C	0,8872		0,8828	0,8898
Refractive index at 20°C	1,4574		1,4540	1,4610
Refractive index at 25°C	1,4552		1,4518	1,4588
Optical rotation at 20°C	-3,64	"	-6,00	-1,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 19 MAY 2023

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MANE TAIWAN FRAGRANCES & FLAVOU
1F N°6 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 358726 000140
Delivery / Item : 80418498 000010
Contact : Jesus MARTINEZ

Your Reference: FRG23019

M_0040010 ROMAN CHAMOMILE

Batch : 0000986861 Inspection lot : 890000246059
Ordered Qty : Manufacturing date : 15 MAY 2023
Delivered Qty : Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Offactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,9077		0,9000	0,9100
Specific gravity 25/25°C	0,9045		0,8970	0,9070
Refractive index at 20°C	1,4417		1,4380	1,4450
Refractive index at 25°C	1,4395		1,4358	1,4428
Optical rotation at 20°C	-1,40	*	-2,00	2,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 19 MAY 2023

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MANE TAIWAN FRAGRANCES & FLAVOU
1F N°6 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 354431 000010
Delivery / Item : 80407726 000030

Your Reference: FRG23014
Your code: M_0040083
Your description: ROSE TURKEY

Contact : Jesus MARTINEZ

M_0040083
ROSE TURKEY

Batch : 0000961627
Ordered Qty :
Delivered Qty :

inspection lot : 40000776255
Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Odorless inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,9820		0,9550	0,9950
Specific gravity 25/25°C	0,9788		0,9518	0,9918
Refractive index at 20°C	1,5111		1,4900	1,5200
Refractive index at 25°C	1,5089		1,4878	1,5178

Date : 15 MAR 2023

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MANE TAIWAN FRAGRANCES & FLAVOU
1F N°6 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 358726 000040
Delivery / Item : 80418468 000010

Your Reference: FRG23019
Your code: M_0020246
Your description: ROSEMARY

Contact : Jesus MARTINEZ

M_0020246
ROSEMARY

Batch : 0000986831
Ordered Qty :
Delivered Qty :

Inspection lot : 890000246029
Manufacturing date : 15 MAY 2023
Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,9106		0,9070	0,9160
Specific gravity 25/25°C	0,9074		0,9040	0,9130
Refractive index at 20°C	1,4663		1,4640	1,4700
Refractive index at 25°C	1,4641		1,4618	1,4678
Optical rotation at 20°C	0,08	°	-3,00	4,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 19 MAY 2023

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Certificate of Analysis



MANE TAIWAN FRAGRANCES & FLAVOURS CO
1F N°8 LN.92, SEC.1, JIANGUO N. RD
ZHONGSHAN DIST.
10489 TAIPEI CITY
TAIWAN (PROVINCE OF CHINA)

Order / Item : 354431 000150
Delivery / Item : 80407770 000030
Contact : Jesus MARTINEZ

Your Reference: FRG23014

E_9514253/01
ROSEWOOD

Batch : 0000961671

Inspection lot : 40000776299
Manufacturing date : 09 MAR 2023
Best before date : 09 MAR 2024

Delivered Qty :

Characteristic	Value	Unit	Lower Limit	Upper Limit
Olfactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,8687		0,8540	0,8840
Specific gravity 25/25°C	0,8655		0,8508	0,8808
Refractive index at 20°C	1,4636		1,4540	1,4740
Refractive index at 25°C	1,4614		1,4518	1,4718

Date : 15 MAR 2023

Quality Control Department

"This computer generated Certificate of Analysis is valid without signature"



Certificate of Analysis

MANE TAIWAN
1F N°8 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 358726 000100
Delivery / Item : 80418486 000010
Contact : Jesus MARTINEZ

Your Reference: FRG23019

E_9400507 SANDALWOOD

Batch : 0000986849
Ordered Qty :
Delivered Qty :

Inspection lot : 10000198736
Manufacturing date : 15 MAY 2023
Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Odactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	
Specific gravity 20/20°C	0,9771		0,9650	0,9850
Specific gravity 25/25°C	0,9739		0,9620	0,9820
Refractive index at 20°C	1,5059		1,5000	1,5100
Refractive index at 25°C	1,5037		1,4978	1,5078
Optical rotation at 20°C	-19,56	*	-22,00	-8,00
Conformity GC polar	Conform	-	Conform / Not conform	

Date : 19 MAY 2023

Quality Control Department



Certificate of Analysis

MANE TAIWAN FRAGRANCES & FLAVOU
1F N°8 LN.92, SEC.1, JIANGUO N. RD
10489 TAIPEI CITY
TAIWAN

Order / Item : 358726 000080
Delivery / Item : 80418480 000010
Contact : Jesus MARTINEZ

Your Reference: FRG23019
Your code: M_0053863
Your description: VETYVER ROOT

M_0053863 VETYVER ROOT

Batch : 0000986843
Ordered Qty :
Delivered Qty :
Inspection lot : 890000246041
Manufacturing date : 15 MAY 2023
Best before date : 15 MAY 2024

Characteristic	Value	Unit	Lower Limit	Upper Limit
Odactive inspection	Conform	-	Conform / Not conform	
Visual texture inspection	Conform	-	Conform / Not conform	
Visual color inspection	Conform	-	Conform / Not conform	

Date : 19 MAY 2023

Quality Control Department

"This computer generated Certificate of Analysis is valid without signature"

WE
CAPTURE
WHAT
MOVES

MANE

MANE (SHANGHAI) Fragrances and Flavours Co., Ltd. No. 612, Shan
Lian Road, Shanghai China
曼氏(上海)香精香料有限公司
上海市宝山区城市工业园区山连路612号

分析报告

CERTIFICATE OF ANALYSIS

E.9315226

YLANG YLANG FRAGRANCE

Lot No./生产批号: 22306729

Quantity/生产数量:

Production Date/生产日期: March 09, 2023

Best Before/最佳使用日期: March 09, 2024

ORGANOLEPTIC DATA / 感官测定

	Result / 结果	Standard / 标准
Taste/Odeur: 香味/香气	Conform 合格	Conform to the target 符合同一型号对照品
Color and Appearance: 色泽和状态	Conform 合格	Conform to the target 符合同一型号对照品

PHYSICO-CHEMICAL DATA / 理化指标

	Result / 结果	Standard / 标准
Refractive Index at 20°C/折光指数(20°C)	1.4994	1.4950 - 1.5050
Specific Gravity 20/20°C/相对密度(20/20°C)	0.9765	0.9700 - 0.9800

Inspected by / 检验员:

王辰越

Checked by / 审核员:

靳锦丽

Approved by / 批准员:

黎丽勉

Inspection Date / 检验日期: March 09, 2023

Issue Date / 报告日期: March 10, 2023

敬请留意: 本文件由系统自动生成, 无手写盖章

曼氏(上海)香精香料有限公司
Conclusion/结论: Qualified/合格
质量检验专用

MANE (SHANGHAI)
FRAGRANCES & FLAVOURS
QUALITY CONTROL
Signature: 朱海燕



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

BERGAMOT EO M_0020356

Your reference : GCAS 91881146
CAS-No. : 8007-75-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Acute Tox. 5 Oral: May be harmful if swallowed.

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Irrit. 2A: Causes serious eye irritation.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

2.2 Label elements

Pictogram



GHS02

GHS07

GHS08

GHS09

Signal Word

DANGER

Hazard Statements

- H226: Flammable liquid and vapor.
- H303: May be harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273: Avoid release to the environment.
- P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378: In case of fire: Use water for extinction.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P391: Collect spillage.
- P321: Specific treatment (see this label).
- P362: Take off contaminated clothing and wash before reuse.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.

Product : BERGAMOT EO M_0020356



P241: Use explosion-proof electrical/ventilating/lighting/equipment.
 P242: Use only non-sparking tools.
 P243: Take precautionary measures against static discharge.
 P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8007-75-8

Component	CAS	Concentration limit	CLASSIFICATION
LIMONENES	138-86-3	>= 20 % - 50 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALYL ACETATE	115-95-7	>= 20 % - 50 %	Flam. Liq. 4, H227 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2B, H320
LINALOOL	78-70-6	>= 10 % - 20 %	Flam. Liq. 4, H227 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319
Beta PINENE	127-91-3	>= 5 % - 10 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alpha PINENE	80-56-8	>= 1 % - 5 %	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MYRCENE	123-35-3	>= 1 % - 5 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
GERANYLE ACETATE	105-87-3	>= 0.1 % - 1 %	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

TERPINOLENE	586-62-9	>= 0.1 % - 1 %	Flam. Liq. 4, H227 Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
beta-OCIMENE	13877-91-3	>= 0.1 % - 1 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From GREEN YELLOW to GREEN
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 60 °C (140 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.

Product : BERGAMOT EO M_0020356



- Vapor Density: No data available.
- Specific Gravity: 0.871 / 0.883
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

Product : BERGAMOT EO M_0020356



10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	> 5000 (Calculated)
LD50 Oral(mg/kg)	4838.9 (Calculated)
CL50 Inhalation - vapor(mg/l)	> 100 (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LIMONENES	138-86-3	>= 20 % - 50 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALYL ACETATE	115-95-7	>= 20 % - 50 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	>= 10 % - 20 %	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	>= 5 % - 10 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GAMMA TERPINENE	99-85-4	>= 5 % - 10 %	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	>= 1 % - 5 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	>= 0.1 % - 1 %	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

Skin corrosion/irritation : No data available.
Specific Target Organ - Repeated Exposure : No data available.
Respiratory Sensitization : No data available.
Reproductive toxicity : No data available.
Germ cell mutagenicity : No data available.
Serious eye damage/irritation : No data available.
Skin Sensitization : No data available.
Aspiration Hazard : No data available.
Specific Target Organ - Single Exposure : No data available.
Specific Target Organ (NE) - Single Exposure : No data available.
Carcinogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

Toxicity Water Flea : No data available.
Toxicity Rat : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.
Bioaccumulative potential : No data available.
Mobility in soil : No data available.
Other adverse effects : No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.

IATA

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.

IMDG



SAFETY DATA SHEET

Product : BERGAMOT EO M_0020356

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Product : BERGAMOT EO M_0020356



P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use water for extinction.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbone Dioxyde
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50: Lethal Dose at 50%
CL50: Concentration Lethal at 50%
UN: United Nation
ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

Product : BERGAMOT EO M_0020356



The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



SAFETY DATA SHEET

Product : CHAMOMILLE FRAGRANCE E.9426443

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

CHAMOMILLE FRAGRANCE E.9426443

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : MANE (Shanghai) Fragrances & Flavours Co
Address : No. 612 Shan Lian Road, Baoshan Urban Industry Park- Shanghai 200444-CHINA
Telephone : +86 21 3611 9900 (Only during office hours)
e-mail : CN-SH.REG-SDS@mane.com

1.4 Emergency telephone number

Emergency telephone : 400-6267-911

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Skin irrit. 3: Causes mild skin irritation.

Eye Dam. 1: Causes serious eye damage.

Environmental hazards

Aquatic Acute 3: Harmful to aquatic life.

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Pictogram



SAFETY DATA SHEET

Product : CHAMOMILLE FRAGRANCE E.9426443



GHS02



GHS05

Signal Word

DANGER

Hazard Statements

H226: Flammable liquid and vapor.
H316: Causes mild skin irritation.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P273: Avoid release to the environment.
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P370+P378: In case of fire: Use water for extinction.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS



SAFETY DATA SHEET

Product : CHAMOMILLE FRAGRANCE E.9426443

3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

Component	CAS	Concentration limit	CLASSIFICATION
ETHYL LACTATE	97-64-3	>= 10 % - 20 %	Flam. Liq. 3, H226 Eye Dam. 1, H318 STOT SE 3 (RI), H335
BUTYL ACETATE	123-86-4	>= 5 % - 10 %	Flam. Liq. 3, H226 STOT SE 3 (NE), H336
METHYL 2-METHYLBUTYRATE	868-57-5	>= 1 % - 5 %	Flam. Liq. 2, H225 Skin irrit. 2, H315 Eye Irrit. 2A, H319
Alpha PINENE	80-56-8	>= 0.1 % - 1 %	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media



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Product : CHAMOMILLE FRAGRANCE E.9426443

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene



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Product : CHAMOMILLE FRAGRANCE E.9426443

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component	CAS	Concentration limit	PC-TWA (mg/m3)
BUTYL ACETATE	123-86-4	>= 5 % - 10 %	200

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.

Product : CHAMOMILLE FRAGRANCE E.9426443



- Boiling point (°C): No data available.
- Flash point (°C): 37 °C (98.6 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.95 / 0.966
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability



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Product : CHAMOMILLE FRAGRANCE E.9426443

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Calculated)
 LD50 Oral(mg/kg) > 5000 (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
ETHYL LACTATE	97-64-3	>= 10 % - 20 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
BUTYL ACETATE	123-86-4	>= 5 % - 10 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
METHYL 2-METHYLBUTYRATE	868-57-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.



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Product : CHAMOMILLE FRAGRANCE E.9426443

- Specific Target Organ - Repeated Exposure : No data available.
- Respiratory Sensitization : No data available.
- Reproductive toxicity : No data available.
- Germ cell mutagenicity : No data available.
- Serious eye damage/irritation : No data available.
- Skin Sensitization : No data available.
- Aspiration Hazard : No data available.
- Specific Target Organ - Single Exposure : No data available.
- Specific Target Organ (NE) - Single Exposure : No data available.
- Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

- Toxicity Fish : No data available.
- Toxicity Alga : No data available.
- Toxicity Water Flea : No data available.
- Toxicity Rat : No data available.



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Product : CHAMOMILLE FRAGRANCE E.9426443

12.2 Persistence and degradability

Biodegradability	:	No data available.
Hydrosolubility	:	No data available.
Comments	:	None

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient)	:	No data available.
Bio Concentration Factor	:	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number	:	1266
Transportation name United Nations	:	PERFUMERY PRODUCTS
Danger class(es) for transport	:	Classe 3 : FLAMMABLE LIQUIDS
Packaging group	:	III
Environmental dangers	:	No.

IATA

UN number	:	1266
Transportation name United Nations	:	PERFUMERY PRODUCTS
Danger class(es) for transport	:	Classe 3 : FLAMMABLE LIQUIDS
Packaging group	:	III
Environmental dangers	:	No.

IMDG

UN number	:	1266
Transportation name United Nations	:	PERFUMERY PRODUCTS
Danger class(es) for transport	:	Classe 3 : FLAMMABLE LIQUIDS



SAFETY DATA SHEET

Product : CHAMOMILLE FRAGRANCE E.9426443

Packaging group : III
Environmental dangers : No.
Marine pollutants : None

RID

UN number : 1266
Transportation name United Nations : PERFUMERY PRODUCTS
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : No.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Product : CHAMOMILLE FRAGRANCE E.9426443



P303+P361+P353

P332+P313

P370+P378

P403+P235

P501

P233

P240

P241

P242

P243

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

In case of fire: Use water for extinction.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service

CO2: Carbone Dioxyde

SDS: Safety Data Sheet

OELs: Occupational Exposure Limits

LD50: Lethal Dose at 50%

CL50: Concentration Lethal at 50%

UN: United Nation

ADR: Accord for Dangerous goods by Road

IATA : International Air Transport Association

IMDG : International Maritime Dangerous Goods

RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



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CLARY SAGE M_0053864

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

CLARY SAGE M_0053864

CAS-No.	:	8016-63-5
EINECS Number	:	283-911-8
INDEX NUMBER	:	No data available.
REACH Registration No.	:	No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Films
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Irrit. 2: Causes serious eye irritation.

Environmental hazards

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements



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GHS07

WARNING

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains NEROL, NEROLIDOL, LIMONENES, Beta PINENE, Alpha PINENE, CITRAL, Trans-2-HEXENAL, METHYL HEPTENONE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8016-63-5

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
LINALYL ACETATE	115-95-7		[50 % , 80 %]	Skin irrit. 2, H315 Skin Sens. 1, H317
LINALOOL	78-70-6	603-235-00-2	[20 % , 50 %]	Skin irrit. 2, H315

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				Skin Sens. 1B, H317 Eye Irrit. 2, H319
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Alpha TERPINEOL	98-55-5		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
GERANYLE ACETATE	105-87-3		[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
beta-OCIMENE	13877-91-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
GERANIOL	106-24-1		[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318
MYRCENE	123-35-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
NEROL	106-25-2		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
NEROLIDOL	7212-44-4		[0.1 % , 1 %]	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LIMONENES	138-86-3	601-029-00-7	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beta PINENE	127-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alpha PINENE	80-56-8		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRAL	5392-40-5	605-019-00-3	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
Trans-2-HEXENAL	6728-26-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Acute Tox. 3 Dermal, H311 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
1-OCTEN-3-OL	3391-86-4		[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4 Inhalation, H332 Aquatic Acute 1, H400



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METHYL HEPTENONE	409-02-9		[0 % , 0.1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319
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Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.



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6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits



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National OELs values

FRANCE: None
GERMANY: None
UNITED STATES: None
CHINA: None
INDONESIA: None

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to BROWN YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 84 °C (183.2 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.

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- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.892 / 0.902
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.



10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 LD50 Oral(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LINALYL ACETATE	115-95-7	[50 % , 80 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[20 % , 50 %[	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha TERPINEOL	98-55-5	[1 % , 5 %[	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
beta-OCIMENE	13877-91-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	5000 <i>Measured</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	[1 % , 5 %[	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
NEROLIDOL	7212-44-4	[0.1 % , 1 %[> 5000 <i>Measured</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %[> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

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LIMONENES	138-86-3	[0.1 % , 1 %[> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[0.1 % , 1 %[> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	[0.1 % , 1 %[	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Trans-2-HEXENAL	6728-26-3	[0.1 % , 1 %[	600 <i>Measured</i>	900 <i>Measured</i>	> 100 <i>Estimated</i>
METHYL HEPTENONE	409-02-9	[0 % , 0.1 %[	> 5000 <i>Estimated</i>	1410 <i>Measured</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION



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12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).



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14 TRANSPORT INFORMATION

ADR

Not regulated

IATA

Not regulated

IMDG

Not regulated

RID

Not regulated

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

Regulation (EC) No 1907/2006, if relevant :

No data available.

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

CLARY SAGE M_0053864



H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
 CO2: Carbon dioxide
 LD50: Lethal dose 50
 NTP: National Toxicology program
 IARC: International Agency for Research on Cancer
 OSHA: Occupational Safety and Health Administration
 UN: United Nations
 IMDG : International Maritime Dangerous Goods
 IATA : International Air Transport Association

Classification codes

Acute Tox. 3 Dermal	: Acute toxicity Category 3 Dermal
Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Aquatic Chronic 4	: Chronic hazards to the aquatic environment Category 4
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3



Skin irrit. 2 : Skin corrosion/irritation Category 2
Skin Sens. 1 : Skin sensitizer Category 1
Skin Sens. 1A : Skin sensitizer Category 1A
Skin Sens. 1B : Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

Product : CLARY SAGE W1429547

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

CLARY SAGE W1429547

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE - 06620 LE-BAR-SUR-LOUP - FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements



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Product : CLARY SAGE W1429547

GHS07

WARNING

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see this label).

P363: Wash contaminated clothing before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains 1,3-Benzodioxole-5-propanal, a-methyl-, ETHYL METHYLPHENYLGLYCIDATE, CITRAL. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8016-63-5

3.2 Mixtures

Hazardous Substances

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
2-tert-BUTYLCYCLOHEXYL ACETATE	88-41-5		[1 % , 5 %]	Aquatic Chronic 2, H411
2,4,6-TRIMETHYL-4-PHENYL-1,3-DIOXANE	5182-36-5		[1 % , 5 %]	Acute Tox. 4 Oral, H302 Aquatic Chronic 3, H412
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ETHYL MALTOL	4940-11-8		[1 % , 5 %]	Acute Tox. 4 Oral, H302
PHENETHYL ALCOHOL	60-12-8		[1 % , 5 %]	Acute Tox. 4 Oral, H302

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Product : CLARY SAGE W1429547

4-(p-HYDROXYPHENYL)-2-BUTANONE	5471-51-2		[1 % , 5 %]	Eye Irrit. 2, H319 Acute Tox. 4 Oral, H302
1,3-Benzodioxole-5-propanal, α -methyl-	1205-17-0		[0.1 % , 1 %]	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
ETHYL METHYLPHENYLGLYCIDATE	77-83-8		[0.1 % , 1 %]	Skin Sens. 1, H317 Aquatic Chronic 2, H411
CITRAL	5392-40-5	605-019-00-3	[0.1 % , 1 %]	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319

Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

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Product : CLARY SAGE W1429547

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the MSDS for Personal Protective Equipment.
For waste disposal, see section 13 of the MSDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

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Product : CLARY SAGE W1429547

Occupational exposure limits (OEL)

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
LIMONENES	138-86-3	[1 % , 5 %]	GERMANY: 28 FRANCE: None INDONESIA: None UNITED STATES: 30 (AIHA)

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: LIGHT YELLOW
- Final Color: No data available.
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 87 °C (188.6 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 1.014 / 1.024

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- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

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Product : CLARY SAGE W1429547

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 LD50 Oral(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
2,4,6TRIMETHYL-4-PHENYL-1,3-DIOXANE	5182-36-5	[1 % , 5 %]	> 5000 <i>Estimated</i>	1200 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
ETHYL MALTOL	4940-11-8	[1 % , 5 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
4-(p-HYDROXYPHENYL)-2-BUTANONE	5471-51-2	[1 % , 5 %]	> 5000 <i>Estimated</i>	1400 <i>Estimated</i>	> 100 <i>Estimated</i>
PHENETHYL ALCOHOL	60-12-8	[1 % , 5 %]	2500 <i>Estimated</i>	1610 <i>Estimated</i>	> 100 <i>Estimated</i>
1,3-Benzodioxole-5-propanal, a-methyl-	1205-17-0	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	3550 <i>Estimated</i>	> 100 <i>Estimated</i>
ETHYL METHYLPHENYLGLYCIDATE	77-83-8	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	[0.1 % , 1 %]	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

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Product : CLARY SAGE W1429547

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Daphnia : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

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Product : CLARY SAGE W1429547

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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Product : CLARY SAGE W1429547

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
oxydipropanol	01-2119458811-38-XXXX
Orange, sweet, ext.	01-2119493353-35-XXXX
cis-2-tert-butylcyclohexyl acetate	01-2119970713-33-XXXX
reaction products of (2,2,3-trimethylcyclopent-3-en-1-yl)acetaldehyde and butan-2-one, hydrogenated	01-2119975588-15-XXXX
Anisaldehyde	01-2119977101-43-XXXX

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service



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Product : CLARY SAGE W1429547

CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

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SAFETY DATA SHEET

CYPRESS E_9514234

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

CYPRESS E_9514234

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Acute Tox. 4 Oral: Harmful if swallowed.

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

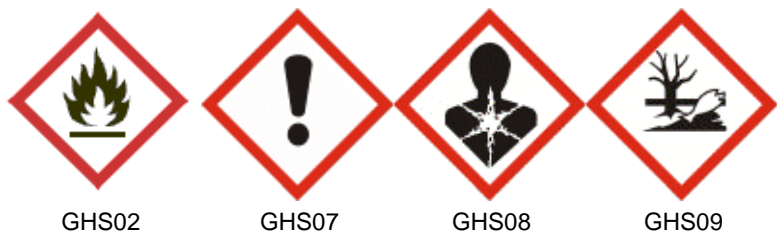
Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

2.2 Label elements



GHS02

GHS07

GHS08

GHS09

DANGER

H226: Flammable liquid and vapor.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H410: Very toxic to aquatic life with long lasting effects.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P370+P378: In case of fire: Use water for extinction.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains (-) TRANS BETA CARYOPHYLLENE, LINALOOL, METHYL HEPTENONE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.



[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
Alpha PINENE	80-56-8		[80 % , 100 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DELTA 3 CARENE	13466-78-9		[5 % , 10 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CEDROL	77-53-2		[1 % , 5 %]	Aquatic Chronic 2, H411
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beta PINENE	127-91-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MYRCENE	123-35-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
CAMPHENE	79-92-5		[1 % , 5 %]	Flam. Sol. 2, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TERPINOLENE	586-62-9		[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317
LINALOOL	78-70-6	603-235-00-2	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319



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alpha CEDRENE	469-61-4		[0.1 % , 1 %]	Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
METHYL HEPTENONE	409-02-9		[0 % , 0.1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319

Ingredients having an occupational exposure limit value: See section 8.

[x] 4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

[x] 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.



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[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

[x] 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits



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National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
Alpha PINENE	80-56-8	[80 % , 100 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None UNITED STATES: 20 (ACGIH)
DELTA 3 CARENE	13466-78-9	[5 % , 10 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None UNITED STATES: 20 (ACGIH)
LIMONENES	138-86-3	[1 % , 5 %]	CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None UNITED STATES: 30 (AIHA)
Beta PINENE	127-91-3	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None UNITED STATES: 20 (ACGIH)

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From YELLOW to ORANGE
- Odor: Characteristic

CYPRESS E_9514234



- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 37 °C (98.6 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.856 / 0.886
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

[x] 10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.



10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 LD50 Oral(mg/kg) 584.68 (Unknown: 0%) (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
Alpha PINENE	80-56-8	[80 % , 100 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
DELTA 3 CARENE	13466-78-9	[5 % , 10 %]	> 5000 <i>Estimated</i>	4800 <i>Measured</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[1 % , 5 %]	> 5000	> 5000	> 100



			<i>Estimated</i>	<i>Estimated</i>	<i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[1 % , 5 %]	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[0.1 % , 1 %]	> 5000 <i>Measured</i>	2790 <i>Measured</i>	50 <i>Estimated</i>
METHYL HEPTENONE	409-02-9	[0 % , 0.1 %]	> 5000 <i>Estimated</i>	1410 <i>Measured</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.



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[x] 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

[x] 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).



[x] 14 TRANSPORT INFORMATION

ADR

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Tunnel restriction code : No data available.

IATA

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.

IMDG

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID POLLUTANT
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Marine pollutants : P - pollutant

RID

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Tunnel restriction code : No data available.

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
(1S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene	01-2119979519-16-XXXX
(+)-pin-2(3)-ene	01-2119983230-42-XXXX



15.2 Chemical safety assessment

No data available.

[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use water for extinction.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.



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P243 Take precautionary measures against static discharge.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Flam. Sol. 2	: Flammable solid Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1A	: Skin sensitizer Category 1A
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that apply to its activities.
This automatically generated safety data sheet is valid without signature.

SAFETY DATA SHEET

EUCALYPTUS GLOBULUS EO 80/85% E05778

1 Identification of the substance/mixture and the company/business

1.1 Product identifier

EUCALYPTUS GLOBULUS EO 80/85% E05778

CAS-No.	:	8000-48-4
EINECS Number	:	283-406-2
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2119978250-37-0012 *

* *The REACH number is specific to V MANE FILS legal entity.*

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Fils
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number	:	CN number 0532-83889090
Other Emergency Numbers	:	

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

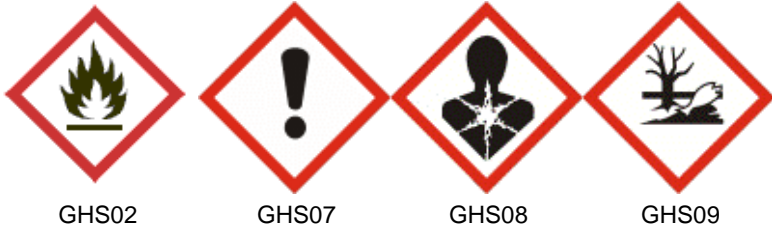
Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements



SAFETY DATA SHEET

EUCALYPTUS GLOBULUS EO 80/85% E05778



DANGER

- H226: Flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H411: Toxic to aquatic life with long lasting effects.

- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P370+P378: In case of fire: Use water for extinction.
- P391: Collect spillage.
- P321: Specific treatment (see this label).
- P362: Take off contaminated clothing and wash before reuse.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.

EUH208: Contains D-LIMONENE, 4-TERPINENOL, Alpha TERPINENE, LINALOOL, TERPINOLENE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None
 Endocrine Disruptors: None
 Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.:8000-48-4

Component	CAS number	Concentration	CLASSIFICATION	Other hazard
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EUCALYPTUS GLOBULUS EO 80/85% E05778



	Index number	limit	ACCORDING Reg. 1272/2008/CE	information
EUCALYPTOL	470-82-6	[80 % , 100 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 2480 mg/kg CL50 Inhalation - vapor > 100 mg/l
L-LIMONENE	5989-54-8	[10 % , 20 %]	Flam. Liq. 3, H226 Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
PARACYMENE	99-87-6	[5 % , 10 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 3 Inhalation, H331 Repr. 2, H361 Aquatic Chronic 2, H411	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 4750 mg/kg CL50 Inhalation - vapor 9.7000 mg/l
Alpha PINENE	80-56-8	[5 % , 10 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 500 mg/kg CL50 Inhalation - vapor > 100 mg/l
GAMMA TERPINENE	99-85-4	[5 % , 10 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361 Aquatic Chronic 2, H411	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 3650 mg/kg CL50 Inhalation - vapor > 100 mg/l
MYRCENE	123-35-3	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
Beta PINENE	127-91-3	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
Alpha PHELLANDRENE	99-83-2	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor >

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				100 mg/l
Alpha TERPINEOL	98-55-5	[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 4300 mg/kg CL50 Inhalation - vapor > 100 mg/l
D-LIMONENE	5989-27-5 601-096-00-2	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral > 5000 mg/kg CL50 Inhalation - vapor > 100 mg/l
4-TERPINENOL	562-74-3	[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 3 Inhalation, H331 STOT SE 3 (NE), H336	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal 2500 mg/kg LD50 Oral 1300 mg/kg CL50 Inhalation - vapor 3 mg/l
Alpha TERPINENE	99-86-5	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 1680 mg/kg CL50 Inhalation - vapor > 100 mg/l
LINALOOL	78-70-6 603-235-00-2	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	M factor: Not applicable SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 2790 mg/kg CL50 Inhalation - vapor > 100 mg/l
TERPINOLENE	586-62-9	[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M factor: 1 SCL: Not applicable ATE: LD50 Dermal > 5000 mg/kg LD50 Oral 3850 mg/kg CL50 Inhalation - vapor > 100 mg/l

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures



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IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 Measures to adopt in case of accidental dispersion

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and material for containment and clean-up



SAFETY DATA SHEET

EUCALYPTUS GLOBULUS EO 80/85% E05778

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
Alpha PINENE	80-56-8	[5 % , 10 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) POLAND: None UNITED STATES OF AMERICA: 20 (ACGIH)
Beta PINENE	127-91-3	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) POLAND: None UNITED STATES OF AMERICA: 20 (ACGIH)



SAFETY DATA SHEET

EUCALYPTUS GLOBULUS EO 80/85% E05778

European Indicative OELs values

None

8.2 Exposure controls

Face & eye protection:

Use safety glasses or a face shield according to Standard EN 166 and according to the hazard analysis specific to the workplace (chemical to be handled, protocol for use, frequency of use, quantity used, etc.).

Hand & skin protection:

Use chemical resistant gloves in accordance with Standard EN 374 for protective gloves against chemicals.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to Standard EN 374) is recommended.

When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to Standard EN 374) is recommended. Thickness > or = 0.2 mm.

Please observe the instructions regarding permeability and breakthrough time which are provided by the glove supplier. Permeation time must exceed contact time.

Choose the type of gloves according to the chemical properties of the products being handled.

Change gloves according to the manufacturer's recommendations or if they are damaged.

Wear protective clothing covering the arms and legs. Use an apron or full suit if exposure is expected.

These recommendations must be adapted according to the hazard analysis specific to the workplace.

Respiratory protection:

Use in a well-ventilated area.

In the event that ventilation is not sufficient to prevent inhalation of substances or reduce airborne concentrations below an established occupational exposure limit, use an adequate respiratory apparatus to supplement the engineering measures already in place.

These recommendations must be adapted according to the hazard analysis specific to the workplace.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 48 °C (118.5 °F)



- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.9060 / 0.9250
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

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No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Hazard class information as defined in Regulation (EC) No. 1272/2008

Product Information

LD50 Dermal(mg/kg)	> 5000 (Measured)
LD50 Oral(mg/kg)	3320 (Measured)
CL50 Inhalation - vapor(mg/l)	80.310 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
EUCALYPTOL	470-82-6	[80 % , 100 %]	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
L-LIMONENE	5989-54-8	[10 % , 20 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	[5 % , 10 %]	> 5000 <i>Estimated</i>	4750 <i>Measured</i>	9.7000 <i>Measured</i>
GAMMA TERPINENE	99-85-4	[5 % , 10 %]	> 5000 <i>Estimated</i>	3650 <i>Measured</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[5 % , 10 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PHELLANDRENE	99-83-2	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha TERPINEOL	98-55-5	[1 % , 5 %]	> 5000	4300	> 100



			<i>Estimated</i>	<i>Estimated</i>	<i>Estimated</i>
D-LIMONENE	5989-27-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
4-TERPINENOL	562-74-3	[0.1 % , 1 %[	2500 <i>Estimated</i>	1300 <i>Estimated</i>	3 <i>Estimated</i>
Alpha TERPINENE	99-86-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	1680 <i>Measured</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[0.1 % , 1 %[	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>

Germ cell mutagenicity	:	(OECD 471) - Ames test
Germ cell mutagenicity	:	(OECD 476) - ML/TK test
Germ cell mutagenicity	:	(OECD 473) - HL CAT
Reproductive toxicity	:	(OECD 422) - Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening test
Serious eye damage/irritation	:	No data available.
Specific Target Organ - Single Exposure	:	No data available.
Skin Sensitization	:	No data available.
Cancerogenicity	:	No data available.
Specific Target Organ (NE) - Single Exposure	:	No data available.
Specific Target Organ - Repeated Exposure	:	No data available.
Aspiration Hazard	:	No data available.
Respiratory Sensitization	:	No data available.
Skin corrosion/irritation	:	No data available.

Information on likely routes of exposure

No data available.

Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

Interactive effects

No data available.



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11.2 Information on other hazards

Properties interfering with the endocrine system

Not applicable

Other information

No data available.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Information on other hazards



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EUCALYPTUS GLOBULUS EO 80/85% E05778

Properties interfering with the endocrine system

Not applicable

Other information

No data available.

12.7 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number : 1197
Transportation name United Nations : EXTRACTS, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : No data available.

IATA

UN number : 1197
Transportation name United Nations : EXTRACTS, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.

IMDG

UN number : 1197
Transportation name United Nations : EXTRACTS, LIQUID POLLUTANT
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 1197



SAFETY DATA SHEET

EUCALYPTUS GLOBULUS EO 80/85% E05778

Transportation name United Nations : EXTRACTS, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : No data available.

14.1 Special precautions for user

No recommendation given.

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

SEVESO III: DIRECTIVE 2012/18/EU of the European parliament and of the council on the control of major-accident hazards involving dangerous substances.

Section(s) of the ICPE nomenclature (France): 4130, 4330, 4331, 4510, 4511

Other regulations can apply:

Directive 92/85/EEC on the maternity Protection or stricter national regulations if applicable.

Directive 94/33/EC on the protection of young people at work or stricter national regulations, if applicable.

15.2 Chemical safety assessment

No data available.

16 Other information

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.



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H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 3 Inhalation	: Acute toxicity Category 3 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B
STOT SE 3 (NE)	: Specific target organ toxicity - single exposure Category 3 Narcotic effect.

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

**We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that**

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EUCALYPTUS GLOBULUS EO 80/85% E05778



apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

Product : FRANKINCENSE E_9514236

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

FRANKINCENSE E_9514236

Your reference : E_9514236 FRANKINCENSE

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number : CN number 400-6267-911

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 4: Combustible liquid.

Health Dangers

Acute Tox. 4 Oral: Harmful if swallowed.

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Repr. 2: Suspected of damaging fertility or the unborn child.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

2.2 Label elements



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Product : FRANKINCENSE E_9514236

Pictogram



GHS07



GHS08



GHS09

Signal Word

DANGER

Hazard Statements

- H227: Combustible liquid.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H361: Suspected of damaging fertility or the unborn child.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P281: Use personal protective equipment as required.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P201: Obtain special instructions before use.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273: Avoid release to the environment.
- P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- P308+P313: IF exposed or concerned: Get medical advice/attention.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P370+P378: In case of fire: Use water for extinction.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P391: Collect spillage.
- P321: Specific treatment (see this label).
- P362: Take off contaminated clothing and wash before reuse.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- P270: Do not eat, drink or smoke when using this product.
- P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

Product : FRANKINCENSE E_9514236

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

Component	CAS	Concentration limit	CLASSIFICATION
Alpha PINENE	80-56-8	[50 % , 80 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LIMONENES	138-86-3	[10 % , 20 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
PARACYMENE	99-87-6	[5 % , 10 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 3, H316 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
MYRCENE	123-35-3	[5 % , 10 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Beta PINENE	127-91-3	[5 % , 10 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
GAMMA TERPINENE	99-85-4	[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 3, H316 Repr. 2, H361

Product : FRANKINCENSE E_9514236

CAMPHENE	79-92-5	[1 % , 5 %]	Flam. Sol. 2, H228 Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-TERPINENOL	562-74-3	[1 % , 5 %]	Flam. Liq. 4, H227 Acute Tox. 4 Oral, H302 Acute tox. 5 Dermal, H313 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Acute Tox. 4 Inhalation, H332 STOT SE 3 (NE), H336 Aquatic Acute 2, H401
TERPINOLENE	586-62-9	[0.1 % , 1 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 3, H316 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
EUCALYPTOL	470-82-6	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Skin irrit. 3, H316 Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
DELTA 3 CARENE	13466-78-9	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4 Inhalation, H332 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
CARVONES	99-49-0	[0.1 % , 1 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Acute tox. 5 Dermal, H313 Skin Sens. 1B, H317 Aquatic Acute 2, H401

Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed



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Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling



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7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW

Product : FRANKINCENSE E_9514236



- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 64 °C (147.3 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.8530 / 0.8830
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity



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Product : FRANKINCENSE E_9514236

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Calculated)
LD50 Oral(mg/kg) 852.13 (Calculated)
CL50 Inhalation - vapor(mg/l) > 100 (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
Alpha PINENE	80-56-8	>= 50 % - 80 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	>= 10 % - 20 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	>= 5 % - 10 %	> 5000	4750	> 100

Product : FRANKINCENSE E_9514236



			<i>Estimated</i>	<i>Estimated</i>	<i>Estimated</i>
MYRCENE	123-35-3	>= 5 % - 10 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	>= 5 % - 10 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GAMMA TERPINENE	99-85-4	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
CAMPHENE	79-92-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
4-TERPINENOL	562-74-3	>= 1 % - 5 %	2500 <i>Estimated</i>	1300 <i>Estimated</i>	11 <i>Estimated</i>
TERPINOLENE	586-62-9	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
DELTA 3 CARENE	13466-78-9	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	4800 <i>Measured</i>	11 <i>Estimated</i>
CARVONES	99-49-0	>= 0.1 % - 1 %	3800 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>

Serious eye damage/irritation : No data available.
 Germ cell mutagenicity : No data available.
 Reproductive toxicity : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Skin Sensitization : No data available.
 Cancerogenicity : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Aspiration Hazard : No data available.
 Respiratory Sensitization : No data available.
 Skin corrosion/irritation : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects



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Product : FRANKINCENSE E_9514236

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish	:	No data available.
Toxicity Alga	:	No data available.
Toxicity Water Flea	:	No data available.
Toxicity Rat	:	No data available.

12.2 Persistence and degradability

Biodegradability	:	No data available.
Hydrosolubility	:	No data available.
Comments	:	None

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient)	:	No data available.
Bio Concentration Factor	:	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

Product : FRANKINCENSE E_9514236



14 TRANSPORT INFORMATION

ADR

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Alpha PINENE, LIMONENES)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.

IATA

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Alpha PINENE, LIMONENES)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.

IMDG

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Alpha PINENE, LIMONENES)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Alpha PINENE, LIMONENES)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 Other information

Product : FRANKINCENSE E_9514236

**16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:**

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H228	Flammable solid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P281	Use personal protective equipment as required.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P370+P378	In case of fire: Use water for extinction.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.



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Product : FRANKINCENSE E_9514236

- P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2:Carbone Dioxyde
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50:Lethal Dose at 50%
CL50: Concentration Lethal at 50%
UN: United Nation
ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



SAFETY DATA SHEET

GERANIUM * E_9915763

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

GERANIUM * E_9915763

CAS-No.	:	8000-46-2
EINECS Number	:	290-140-0
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2120769423-50-0002

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Films
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number : CN number 400-6267-911

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Dam. 1: Causes serious eye damage.

Environmental hazards

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements

GERANIUM * E_9915763



GHS05



GHS07



GHS09

DANGER

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains NEROL, CITRONELLYLE TIGLATE, LIMONENES, CITRONELLAL, Beta PINENE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

CAS-No.: 8000-46-2

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
CITRONELLOL	106-22-9		[20 % , 50 %[Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319

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GERANIOL	106-24-1		[10 % , 20 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318
LINALOOL	78-70-6	603-235-00-2	[5 % , 10 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
GERANYL FORMATE	105-86-2		[1 % , 5 %]	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
CITRAL	5392-40-5	605-019-00-3	[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
ROSE OXIDE	16409-43-1		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
MENTHONE	89-80-5		[1 % , 5 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
GERANYLE BUTYRATE	106-29-6		[1 % , 5 %]	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alpha PINENE	80-56-8		[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
NEROL	106-25-2		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
CITRONELLYLE TIGLATE	24717-85-9		[0.1 % , 1 %]	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
beta-OCIMENE	13877-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
CITRONELLAL	106-23-0		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
LIMONENES	138-86-3	601-029-00-7	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
MYRCENE	123-35-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
PARACYMENE	99-87-6		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361 Aquatic Chronic 2, H411
METHYL HEPTENONE	409-02-9		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302

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				Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319
Alpha PHELLANDRENE	99-83-2		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beta PINENE	127-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture



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Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.



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[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
CITRAL	5392-40-5	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 5 (ACGIH) UNITED STATES: 5 (ACGIH)
Alpha PINENE	80-56-8	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) UNITED STATES: 20 (ACGIH)

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From YELLOW to BROWN YELLOW

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- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 78 °C (172.4 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 0.08 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.8920 / 0.8990
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity



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No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	4186.1 (Unknown: 18.39%) (Calculated)
LD50 Oral(mg/kg)	3074.7 (Unknown: 18.39%) (Calculated)
CL50 Inhalation - vapor(mg/l)	> 100 (Unknown: 18.39%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
CITRONELLOL	106-22-9	[20 % , 50 %[	2650 <i>Estimated</i>	3450 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	[10 % , 20 %[> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[5 % , 10 %[> 5000	2790	> 100

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			<i>Measured</i>	<i>Measured</i>	<i>Estimated</i>
GERANYL FORMATE	105-86-2	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	[1 % , 5 %]	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
ROSE OXIDE	16409-43-1	[1 % , 5 %]	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
MENTHONE	89-80-5	[1 % , 5 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[1 % , 5 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
CITRONELLYLE TIGLATE	24717-85-9	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRONELLAL	106-23-0	[0.1 % , 1 %]	2500 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	4750 <i>Estimated</i>	> 100 <i>Estimated</i>
METHYL HEPTENONE	409-02-9	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	1410 <i>Measured</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure



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No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.

Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects



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No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

ADR

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GERANIUM ESSENTIAL OIL, GERANYLE BUTYRATE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Tunnel restriction code	: E

IATA

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GERANIUM ESSENTIAL OIL, GERANYLE BUTYRATE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.

IMDG

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GERANIUM ESSENTIAL OIL, GERANYLE BUTYRATE) POLLUTANT
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Marine pollutants	: P - pollutant

RID

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GERANIUM ESSENTIAL OIL, GERANYLE BUTYRATE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES



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GERANIUM * E_9915763

Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : E

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
Pelargonium graveolens, ext.	01-2120769423-50-0002

15.2 Chemical safety assessment

No data available.

[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

GERANIUM * E_9915763



P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
 CO2: Carbon dioxide
 LD50: Lethal dose 50
 NTP: National Toxicology program
 IARC: International Agency for Research on Cancer
 OSHA: Occupational Safety and Health Administration
 UN: United Nations
 IMDG : International Maritime Dangerous Goods
 IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Aquatic Chronic 4	: Chronic hazards to the aquatic environment Category 4
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1A	: Skin sensitizer Category 1A
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The

SAFETY DATA SHEET

GERANIUM * E_9915763



information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

GRAPEFRUIT EO M_0020345

CAS-No. : 8016-20-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone number : NCEC (regional) +65 3158 1074 / (local) 0120 015 230

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Pictogram



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345



GHS02



GHS07



GHS08



GHS09

Signal Word

DANGER

Hazard Statements

- H226: Flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H400: Very toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273: Avoid release to the environment.
- P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P370+P378: In case of fire: Use water for extinction.
- P391: Collect spillage.
- P321: Specific treatment (see this label).
- P362: Take off contaminated clothing and wash before reuse.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical/ventilating/lighting/equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

2.3 Other hazards

Product : GRAPEFRUIT EO M_0020345



None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8016-20-4

Component	CAS	Concentration limit	CLASSIFICATION
LIMONENES	138-86-3	[80 % , 100 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
MYRCENE	123-35-3	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Alpha PINENE	80-56-8	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317
CITRAL	5392-40-5	[0.1 % , 1 %]	Acute tox. 5 Dermal, H313 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Beta PINENE	127-91-3	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALOOL	78-70-6	[0.1 % , 1 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
CITRONELLAL	106-23-0	[0.1 % , 1 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Acute tox. 5 Dermal, H313 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
CARVONES	99-49-0	[0.1 % , 1 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

			Acute tox. 5 Dermal, H313 Skin Sens. 1B, H317 Aquatic Acute 2, H401
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Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From ORANGE to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 54 °C (129.3 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 1 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.8450 / 0.8650

Product : GRAPEFRUIT EO M_0020345



- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Calculated)
 LD50 Oral(mg/kg) > 5000 (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LIMONENES	138-86-3	>= 80 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	>= 0.1 % - 1 %	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	>= 0.1 % - 1 %	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
CITRONELLAL	106-23-0	>= 0.1 % - 1 %	2500 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
CARVONES	99-49-0	>= 0.1 % - 1 %	3800 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>

Serious eye damage/irritation : No data available.
 Germ cell mutagenicity : No data available.
 Reproductive toxicity : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Skin Sensitization : No data available.
 Cancerogenicity : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Specific Target Organ - Repeated : No data available.



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

Exposure

Aspiration Hazard : No data available.
Respiratory Sensitization : No data available.
Skin corrosion/irritation : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.
Toxicity Rat : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient)	: No data available.
Bio Concentration Factor	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number	: 1169
Transportation name United Nations	: EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport	: Classe 3 : FLAMMABLE LIQUIDS
Packaging group	: III
Environmental dangers	: Yes.

IATA

UN number	: 1169
Transportation name United Nations	: EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport	: Classe 3 : FLAMMABLE LIQUIDS
Packaging group	: III
Environmental dangers	: Yes.

IMDG

UN number	: 1169
Transportation name United Nations	: EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport	: Classe 3 : FLAMMABLE LIQUIDS
Packaging group	: III
Environmental dangers	: Yes.
Marine pollutants	: P - pollutant

RID

UN number	: 1169
Transportation name United Nations	: EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport	: Classe 3 : FLAMMABLE LIQUIDS
Packaging group	: III



SAFETY DATA SHEET

Product : GRAPEFRUIT EO M_0020345

Environmental dangers : Yes.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 Other information

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P370+P378	In case of fire: Use water for extinction.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.

Product : GRAPEFRUIT EO M_0020345



P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2:Carbone Dioxyde
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50:Lethal Dose at 50%
CL50: Concentration Lethal at 50%
UN: United Nation
ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



SAFETY DATA SHEET

LAVENDER M_0020655

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

LAVENDER M_0020655

CAS-No.	:	8000-28-0
EINECS Number	:	283-994-0
INDEX NUMBER	:	No data available.
REACH Registration No.	:	No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Fils
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Irrit. 2: Causes serious eye irritation.

Environmental hazards

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements



SAFETY DATA SHEET

LAVENDER M_0020655



GHS07



GHS08



GHS09

DANGER

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains GERANIOL, LIMONENES, Alpha PINENE, NEROL, TERPINOLENE, 1-OCTEN-3-yl ACETATE, Beta PINENE, COUMARIN, CARVONES. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8000-28-0

Component	CAS	INDEX	Concentration	CLASSIFICATION
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SAFETY DATA SHEET

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		NUMBER	limit	ACCORDING Reg. 1272/2008/CE
LINALYL ACETATE	115-95-7		[20 % , 50 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319
LINALOOL	78-70-6	603-235-00-2	[20 % , 50 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
beta-OCIMENE	13877-91-3		[10 % , 20 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-TERPINENOL	562-74-3		[5 % , 10 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[5 % , 10 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317
1-OCTEN-3-OL	3391-86-4		[5 % , 10 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4 Inhalation, H332 Aquatic Acute 1, H400
Alpha TERPINEOL	98-55-5		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
MYRCENE	123-35-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
EUCALYPTOL	470-82-6		[1 % , 5 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
GERANYLE ACETATE	105-87-3		[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
LINALOOL OXIDE	1365-19-1		[1 % , 5 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319
GERANIOL	106-24-1		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318
Alpha PINENE	80-56-8		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LIMONENES	138-86-3	601-029-00-7	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CAMPHENE	79-92-5		[0.1 % , 1 %]	Flam. Sol. 2, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
NEROL	106-25-2		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318
TERPINOLENE	586-62-9		[0.1 % , 1 %]	Asp. Tox. 1, H304

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LAVENDER M_0020655

				Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-OCTEN-3-yl ACETATE	2442-10-6		[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin Sens. 1B, H317
Beta PINENE	127-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CARVONES	99-49-0	606-148-00-8	[0.1 % , 1 %]	Skin Sens. 1B, H317
COUMARIN	91-64-5		[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin Sens. 1B, H317

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.



SAFETY DATA SHEET

LAVENDER M_0020655

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.



SAFETY DATA SHEET

LAVENDER M_0020655

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

FRANCE: None
GERMANY: None
UNITED STATES: None
CHINA: None
INDONESIA: None

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.

LAVENDER M_0020655



- Boiling point (°C): No data available.
- Flash point (°C): 71 °C (159.8 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 0.1 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.878 / 0.892
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability



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Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 LD50 Oral(mg/kg) 2149.3 (Unknown: 0%) (Calculated)
 CL50 Inhalation - vapor(mg/l) 61.300 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LINALYL ACETATE	115-95-7	[20 % , 50 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[20 % , 50 %[	> 5000 <i>Measured</i>	2790 <i>Measured</i>	50 <i>Estimated</i>
beta-OCIMENE	13877-91-3	[10 % , 20 %[	> 5000 <i>Estimated</i>	5000 <i>Measured</i>	> 100 <i>Estimated</i>
4-TERPINENOL	562-74-3	[5 % , 10 %[	2500 <i>Estimated</i>	1300 <i>Estimated</i>	> 100 <i>Estimated</i>
1-OCTEN-3-OL	3391-86-4	[5 % , 10 %[	3300 <i>Estimated</i>	340 <i>Estimated</i>	11 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[5 % , 10 %[> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

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Alpha TERPINEOL	98-55-5	[1 % , 5 %]	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	[1 % , 5 %]	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL OXIDE	1365-19-1	[1 % , 5 %]	2500 <i>Estimated</i>	1750 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
1-OCTEN-3-yl ACETATE	2442-10-6	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	850 <i>Estimated</i>	> 100 <i>Estimated</i>
COUMARIN	91-64-5	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
CARVONES	99-49-0	[0.1 % , 1 %]	3800 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure



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No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects



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No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

ADR

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAVENDER ESSENTIAL OIL, 1-OCTEN-3-OL)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Tunnel restriction code	: E

IATA

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAVENDER ESSENTIAL OIL, 1-OCTEN-3-OL)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.

IMDG

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAVENDER ESSENTIAL OIL, 1-OCTEN-3-OL) POLLUTANT
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Marine pollutants	: P - pollutant

RID

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAVENDER ESSENTIAL OIL, 1-OCTEN-3-OL)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES



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Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : E

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

Regulation (EC) No 1907/2006, if relevant :

No data available.

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.

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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
 CO2: Carbon dioxide
 LD50: Lethal dose 50
 NTP: National Toxicology program
 IARC: International Agency for Research on Cancer
 OSHA: Occupational Safety and Health Administration
 UN: United Nations
 IMDG : International Maritime Dangerous Goods
 IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Flam. Sol. 2	: Flammable solid Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

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LAVENDER M_0020655



This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

**We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that apply to its activities.
This automatically generated safety data sheet is valid without signature.**



SAFETY DATA SHEET

LEMON M_0064278

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

LEMON M_0064278

CAS-No.	:	84929-31-7
EINECS Number	:	284-515-8
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2119495512-35-0023

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Films
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number : CN number 400-6267-911

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Repr. 2: Suspected of damaging fertility or the unborn child.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements

LEMON M_0064278



GHS02

GHS07

GHS08

GHS09

DANGER

H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P281: Use personal protective equipment as required.

P201: Obtain special instructions before use.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P370+P378: In case of fire: Use water for extinction.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains GERANYLE ACETATE, NERYL ACETATE, TERPINOLENE, (-) TRANS BETA CARYOPHYLLENE, LINALOOL, DELTA 3 CARENE, CITRONELLAL, EUCALYPTOL, GERANIOL, METHYL HEPTENONE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

LEMON M_0064278



Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 84929-31-7

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
LIMONENES	138-86-3	601-029-00-7	[50 % , 80 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Beta PINENE	127-91-3		[10 % , 20 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GAMMA TERPINENE	99-85-4		[10 % , 20 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361
CITRAL	5392-40-5	605-019-00-3	[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
Alpha PINENE	80-56-8		[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MYRCENE	123-35-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
GERANYLE ACETATE	105-87-3		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
NERYL ACETATE	141-12-8		[0.1 % , 1 %]	Skin Sens. 1B, H317
TERPINOLENE	586-62-9		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
PARACYMENE	99-87-6		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304

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				Repr. 2, H361 Aquatic Chronic 2, H411
beta-OCIMENE	13877-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
LINALOOL	78-70-6	603-235-00-2	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
EUCALYPTOL	470-82-6		[0.1 % , 1 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
CITRONELLAL	106-23-0		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
DELTA 3 CARENE	13466-78-9		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4 Inhalation, H332 Aquatic Chronic 1, H410
CAMPHENE	79-92-5		[0.1 % , 1 %]	Flam. Sol. 2, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alpha PHELLANDRENE	99-83-2		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GERANIOL	106-24-1		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318
METHYL HEPTENONE	409-02-9		[0 % , 0.1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.



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4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

LEMON M_0064278



7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
LIMONENES	138-86-3	[50 % , 80 %]	CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None JAPAN: None UNITED STATES: 30 (AIHA)
Beta PINENE	127-91-3	[10 % , 20 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) UNITED STATES: 20 (ACGIH)
CITRAL	5392-40-5	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 5 (ACGIH) UNITED STATES: 5 (ACGIH)
Alpha PINENE	80-56-8	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) UNITED STATES: 20 (ACGIH)



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European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From GREEN YELLOW to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 54 °C (129.2 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 1 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.8500 / 0.8580

LEMON M_0064278



- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

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No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 LD50 Oral(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LIMONENES	138-86-3	[50 % , 80 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[10 % , 20 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GAMMA TERPINENE	99-85-4	[10 % , 20 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	[1 % , 5 %[	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[1 % , 5 %[	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NERYL ACETATE	141-12-8	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	4750 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[0.1 % , 1 %[	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRONELLAL	106-23-0	[0.1 % , 1 %[	2500 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
DELTA 3 CARENE	13466-78-9	[0.1 % , 1 %[> 5000 <i>Estimated</i>	4800 <i>Measured</i>	11 <i>Estimated</i>
EUCALYPTOL	470-82-6	[0.1 % , 1 %[> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>

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METHYL HEPTENONE	409-02-9	[0 % , 0.1 %]	> 5000 <i>Estimated</i>	1410 <i>Measured</i>	> 100 <i>Estimated</i>
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Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information



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LEMON M_0064278

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID



SAFETY DATA SHEET

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Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Tunnel restriction code : No data available.

IATA

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.

IMDG

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID POLLUTANT
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Marine polutants : P - pollutant

RID

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Tunnel restriction code : No data available.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
Lemon, ext.	01-2119495512-35-0023

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION

LEMON M_0064278

**16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:**

H226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P281	Use personal protective equipment as required.
P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P370+P378	In case of fire: Use water for extinction.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.



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P272

Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Aquatic Chronic 4	: Chronic hazards to the aquatic environment Category 4
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Flam. Sol. 2	: Flammable solid Category 2
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1A	: Skin sensitizer Category 1A
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the ECHA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

**We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that**

SAFETY DATA SHEET

LEMON M_0064278



apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

Product : MYRRH M_0020005

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

MYRRH M_0020005

CAS-No. : 84929-26-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

No hazard specified.

Health Dangers

Acute Tox. 4 Oral: Harmful if swallowed.

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Acute 3: Harmful to aquatic life.

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Pictogram

SAFETY DATA SHEET



Product : MYRRH M_0020005



GHS07

Signal Word

WARNING

Hazard Statements

- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273: Avoid release to the environment.
- P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P321: Specific treatment (see this label).
- P363: Wash contaminated clothing before reuse.
- P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- P270: Do not eat, drink or smoke when using this product.
- P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 84929-26-0

Component	CAS	Concentration limit	CLASSIFICATION
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SAFETY DATA SHEET

Product : MYRRH M_0020005

MYRRH ESSENTIAL OIL	8016-37-3	>= 80 %	Acute Tox. 4 Oral, H302
(-) TRANS BETA CARYOPHYLLENE	87-44-5	>= 1 % - 5 %	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
beta-OCIMENE	13877-91-3	>= 0.1 % - 1 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Alpha PINENE	80-56-8	>= 0.1 % - 1 %	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.



SAFETY DATA SHEET

Product : MYRRH M_0020005

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities



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Product : MYRRH M_0020005

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From BROWN YELLOW to RED
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): >100 °C
- Evaporation Rate: No data available.



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Product : MYRRH M_0020005

- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 0.0009 mmHg
- Vapor Density: No data available.
- Specific Gravity: 1.01 / 1.03
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.



SAFETY DATA SHEET

Product : MYRRH M_0020005

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Estimated)
 LD50 Oral(mg/kg) 500 (Estimated)
 CL50 Inhalation - vapor(mg/l) > 100 (Estimated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
MYRRH ESSENTIAL OIL	8016-37-3	>= 80 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
FARNESOL	4602-84-0	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.



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Product : MYRRH M_0020005

Aspiration Hazard : No data available.
Specific Target Organ - Single Exposure : No data available.
Specific Target Organ (NE) - Single Exposure : No data available.
Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.
Toxicity Rat : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None



SAFETY DATA SHEET

Product : MYRRH M_0020005

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient)	: No data available.
Bio Concentration Factor	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR Not regulated

IATA Not regulated

IMDG Not regulated

RID Not regulated

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 OTHER INFORMATION



SAFETY DATA SHEET

Product : MYRRH M_0020005

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbone Dioxyde
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50: Lethal Dose at 50%
CL50: Concentration Lethal at 50%
UN: United Nation
ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

Product : MYRRH M_0020005



The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



SAFETY DATA SHEET

ORANGE M_0020225

1 Identification of the substance/mixture and the company/business

1.1 Product identifier

ORANGE M_0020225

CAS-No.	:	8028-48-6
EINECS Number	:	232-433-8
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2119493353-35-0016

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Fils
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number	:	CN number 400-6267-911
Other Emergency Numbers	:	

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements



GHS02

GHS07

GHS08

GHS09

DANGER

H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P370+P378: In case of fire: Use water for extinction.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P233: Keep container tightly closed.

EUH208: Contains LINALOOL, Alpha PINENE, CITRAL, DELTA 3 CARENE, Beta PINENE, TERPINOLENE, PERILLALDEHYDE, CITRONELLAL. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Endocrine Disruptors: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

3 COMPOSITION / INFORMATION ON INGREDIENTS

SAFETY DATA SHEET

ORANGE M_0020225

3.1 Substances

CAS-No.:8028-48-6

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
LIMONENES	138-86-3	601-029-00-7	[80 % , 100 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
MYRCENE	123-35-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
LINALOOL	78-70-6	603-235-00-2	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
Alpha PINENE	80-56-8		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRAL	5392-40-5	605-019-00-3	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
DELTA 3 CARENE	13466-78-9		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4 Inhalation, H332 Aquatic Chronic 2, H411
Beta PINENE	127-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TERPINOLENE	586-62-9		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARACYMENE	99-87-6		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 3 Inhalation, H331 Repr. 2, H361 Aquatic Chronic 2, H411
CITRONELLAL	106-23-0		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
PERILLALDEHYDE	2111-75-3		[0.1 % , 1 %]	Skin Sens. 1B, H317

Ingredients having an occupational exposure limit value: See section 8.



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3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 Measures to adopt in case of accidental dispersion

6.1 Personal precautions, protective equipment and emergency procedures



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Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and material for containment and clean-up

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
LIMONENES	138-86-3	[80 % , 100 %]	CHINA: None GERMANY: 28 FRANCE: None



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			INDONESIA: None JAPAN: None UNITED STATES: 30 (AIHA)
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European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From ORANGE to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 54 °C (129.3 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 0.9 mmHg

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- Vapor Density: No data available.
- Specific Gravity: 0.8420 / 0.8500
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

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10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Hazard class information as defined in Regulation (EC) No. 1272/2008

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 LD50 Oral(mg/kg) > 5000 (Unknown: 0%) (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LIMONENES	138-86-3	[80 % , 100 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[0.1 % , 1 %]	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	[0.1 % , 1 %]	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
DELTA 3 CARENE	13466-78-9	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	4800 <i>Measured</i>	11 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRONELLAL	106-23-0	[0.1 % , 1 %]	2500 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	4750 <i>Measured</i>	9.7000 <i>Measured</i>
PERILLALDEHYDE	2111-75-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>

Serious eye damage/irritation : No data available.

Germ cell mutagenicity : No data available.



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- Reproductive toxicity : No data available.
- Specific Target Organ - Single Exposure : No data available.
- Skin Sensitization : No data available.
- Carcinogenicity : No data available.
- Specific Target Organ (NE) - Single Exposure : No data available.
- Specific Target Organ - Repeated Exposure : No data available.
- Aspiration Hazard : No data available.
- Respiratory Sensitization : No data available.
- Skin corrosion/irritation : No data available.

Information on likely routes of exposure

No data available.

Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

Interactive effects

No data available.

11.2 Information on other hazards

Properties interfering with the endocrine system

Not applicable

Other information

No data available.

12 ECOLOGICAL INFORMATION

12.1 Toxicity



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Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Information on other hazards

Properties interfering with the endocrine system

Not applicable

Other information

No data available.

12.7 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS



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13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : No data available.

IATA

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.

IMDG

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID POLLUTANT
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : No data available.

14.1 Special precautions for user

No recommendation given.

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
Orange, sweet, ext.	01-2119493353-35-0016

15.2 Chemical safety assessment

No data available.

16 Other information

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 3 Inhalation : Acute toxicity Category 3 Inhalation

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Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

PEPPERMINT E_9521725

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

PEPPERMINT E_9521725

CAS-No.	:	8006-90-4
EINECS Number	:	282-015-4
INDEX NUMBER	:	No data available.
REACH Registration No.	:	No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Fils
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Acute Tox. 4 Oral: Harmful if swallowed.
Asp. Tox. 1: May be fatal if swallowed and enters airways.
Skin irrit. 2: Causes skin irritation.
Skin Sens. 1: May cause an allergic skin reaction.
Eye Irrit. 2: Causes serious eye irritation.

Environmental hazards

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements



GHS07

GHS08

GHS09

DANGER

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains LINALOOL, CARVONES, TERPINOLENE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

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CAS-No.: 8006-90-4

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
MENTHOL	89-78-1		[20 % , 50 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
MENTHONE	89-80-5		[20 % , 50 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317
MENTHOFURAN	494-90-6		[5 % , 10 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
MENTHYL ACETATE	16409-45-3		[5 % , 10 %]	Aquatic Chronic 2, H411
EUCALYPTOL	470-82-6		[5 % , 10 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
ISOMENTHONE	491-07-6		[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317
NEOMENTHOL	2216-52-6		[1 % , 5 %]	Skin irrit. 2, H315
PULEGONE	89-82-7		[1 % , 5 %]	Acute Tox. 4 Oral, H302
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-TERPINENOL	562-74-3		[1 % , 5 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319
Beta PINENE	127-91-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alpha PINENE	80-56-8		[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
beta-OCIMENE	13877-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
LINALOOL	78-70-6	603-235-00-2	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
CARVONES	99-49-0	606-148-00-8	[0.1 % , 1 %]	Skin Sens. 1B, H317
MYRCENE	123-35-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319



				Aquatic Acute 1, H400 Aquatic Chronic 2, H411
TERPINOLENE	586-62-9		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-OCTEN-3-OL	3391-86-4		[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4 Inhalation, H332 Aquatic Acute 1, H400

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

[x] 4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

[x] 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.



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5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

[x] 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION



8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
LIMONENES	138-86-3	[1 % , 5 %]	CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None UNITED STATES: 30 (AIHA)
Beta PINENE	127-91-3	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None UNITED STATES: 20 (ACGIH)
Alpha PINENE	80-56-8	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None UNITED STATES: 20 (ACGIH)

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW

PEPPERMINT E_9521725



- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 75 °C (167 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 0.1 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.9 / 0.91
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

[x] 10 STABILITY AND REACTIVITY

10.1 Reactivity



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No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	> 5000 (Unknown: 0%) (Calculated)
LD50 Oral(mg/kg)	1753.5 (Unknown: 0%) (Calculated)
CL50 Inhalation - vapor(mg/l)	> 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
MENTHOL	89-78-1	[20 % , 50 %[	> 5000 <i>Estimated</i>	2600 <i>Estimated</i>	> 100 <i>Estimated</i>
MENTHONE	89-80-5	[20 % , 50 %[	> 5000 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
MENTHOFURAN	494-90-6	[5 % , 10 %[	> 5000	500	> 100



			<i>Estimated</i>	<i>Estimated</i>	<i>Estimated</i>
EUCALYPTOL	470-82-6	[5 % , 10 %]	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
ISOMENTHONE	491-07-6	[1 % , 5 %]	> 5000 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
NEOMENTHOL	2216-52-6	[1 % , 5 %]	> 5000 <i>Estimated</i>	2600 <i>Measured</i>	> 100 <i>Estimated</i>
PULEGONE	89-82-7	[1 % , 5 %]	3090 <i>Measured</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
4-TERPINENOL	562-74-3	[1 % , 5 %]	2500 <i>Estimated</i>	1300 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[1 % , 5 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[0.1 % , 1 %]	> 5000 <i>Measured</i>	2790 <i>Measured</i>	50 <i>Estimated</i>
CARVONES	99-49-0	[0.1 % , 1 %]	3800 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.



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11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

[x] 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.



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[x] 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

ADR

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PEPPERMINT ESSENTIAL OIL, Beta PINENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Tunnel restriction code	: E

IATA

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PEPPERMINT ESSENTIAL OIL, Beta PINENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.

IMDG

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PEPPERMINT ESSENTIAL OIL, Beta PINENE) POLLUTANT
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Marine polutants	: P - pollutant

RID

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PEPPERMINT ESSENTIAL OIL, Beta PINENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Tunnel restriction code	: E



SAFETY DATA SHEET

PEPPERMINT E_9521725

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

No data available.

15.2 Chemical safety assessment

No data available.

[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
 CO2: Carbon dioxide
 LD50: Lethal dose 50
 NTP: National Toxicology program
 IARC: International Agency for Research on Cancer
 OSHA: Occupational Safety and Health Administration
 UN: United Nations
 IMDG : International Maritime Dangerous Goods
 IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

SAFETY DATA SHEET

PEPPERMINT E_9521725



We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

Product : PETITGRAIN M_0020632

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

PETITGRAIN M_0020632

Your reference : PETITGRAIN BIGARADE PARAGUAY
CAS-No. : 8014-17-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number : CN number 0532-83889090

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 4: Combustible liquid.

Health Dangers

Acute Tox. 5 Oral: May be harmful if swallowed.

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Dam. 1: Causes serious eye damage.

Environmental hazards

Aquatic Acute 2: Toxic to aquatic life.

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Product : PETITGRAIN M_0020632

**Pictogram**

GHS05

GHS07

GHS08

GHS09

Signal Word

DANGER

Hazard Statements

H227: Combustible liquid.
H303: May be harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P273: Avoid release to the environment.
P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P370+P378: In case of fire: Use water for extinction.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P391: Collect spillage.
P321: Specific treatment (see this label).
P362: Take off contaminated clothing and wash before reuse.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

Product : PETITGRAIN M_0020632

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8014-17-3

Component	CAS	Concentration limit	CLASSIFICATION
LINALYL ACETATE	115-95-7	[50 % , 80 %]	Flam. Liq. 4, H227 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
LINALOOL	78-70-6	[20 % , 50 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Alpha TERPINEOL	98-55-5	[5 % , 10 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
GERANYLE ACETATE	105-87-3	[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
beta-OCIMENE	13877-91-3	[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
GERANIOL	106-24-1	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 3, H402
MYRCENE	123-35-3	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
NERYL ACETATE	141-12-8	[1 % , 5 %]	Skin Sens. 1B, H317 Aquatic Acute 2, H401
LIMONENES	138-86-3	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Product : PETITGRAIN M_0020632



NEROL	106-25-2	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Beta PINENE	127-91-3	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TERPINOLENE	586-62-9	[1 % , 5 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 3, H316 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[1 % , 5 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317
DELTA 3 CARENE	13466-78-9	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4 Inhalation, H332 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Alpha PINENE	80-56-8	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
EUCALYPTOL	470-82-6	[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 5 Oral, H303 Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
NEROLIDOL	7212-44-4	[0.1 % , 1 %]	Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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Product : PETITGRAIN M_0020632

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections



SAFETY DATA SHEET

Product : PETITGRAIN M_0020632

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Product : PETITGRAIN M_0020632



9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From LIGHT YELLOW to AMBER YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 74 °C (165.3 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: 0.06 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.8860 / 0.8930
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.



SAFETY DATA SHEET

Product : PETITGRAIN M_0020632

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	> 5000 (Calculated)
LD50 Oral(mg/kg)	4597.8 (Calculated)
CL50 Inhalation - vapor(mg/l)	> 100 (Calculated)

Product : PETITGRAIN M_0020632



Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LINALYL ACETATE	115-95-7	>= 50 % - 80 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	>= 20 % - 50 %	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
Alpha TERPINEOL	98-55-5	>= 5 % - 10 %	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
beta-OCIMENE	13877-91-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	5000 <i>Measured</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NERYL ACETATE	141-12-8	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	>= 1 % - 5 %	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLENE	87-44-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
DELTA 3 CARENE	13466-78-9	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	4800 <i>Measured</i>	11 <i>Estimated</i>
Alpha PINENE	80-56-8	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROLIDOL	7212-44-4	>= 0.1 % - 1 %	> 5000 <i>Measured</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>

Serious eye damage/irritation : No data available.
 Germ cell mutagenicity : No data available.
 Reproductive toxicity : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Skin Sensitization : No data available.
 Cancerogenicity : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Aspiration Hazard : No data available.
 Respiratory Sensitization : No data available.
 Skin corrosion/irritation : No data available.

11.2 Information on likely routes of exposure



SAFETY DATA SHEET

Product : PETITGRAIN M_0020632

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish	: No data available.
Toxicity Alga	: No data available.
Toxicity Water Flea	: No data available.
Toxicity Rat	: No data available.

12.2 Persistence and degradability

Biodegradability	: No data available.
Hydrosolubility	: No data available.
Comments	: None

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.



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Product : PETITGRAIN M_0020632

Bio Concentration Factor	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETIGRAIN BIGARADE ESSENTIAL OIL, MYRCENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.

IATA

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETIGRAIN BIGARADE ESSENTIAL OIL, MYRCENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.

IMDG

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETIGRAIN BIGARADE ESSENTIAL OIL, MYRCENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND ARTICLES
Packaging group	: III
Environmental dangers	: Yes.
Marine pollutants	: P - pollutant

RID

UN number	: 3082
Transportation name United Nations	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PETIGRAIN BIGARADE ESSENTIAL OIL, MYRCENE)
Danger class(es) for transport	: Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND



SAFETY DATA SHEET

Product : PETITGRAIN M_0020632

Packaging group
Environmental dangers

ARTICLES
: III
: Yes.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 Other information

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.



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Product : PETITGRAIN M_0020632

P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P370+P378	In case of fire: Use water for extinction.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbone Dioxide
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50: Lethal Dose at 50%
CL50: Concentration Lethal at 50%
UN: United Nation
ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



SAFETY DATA SHEET

ROMAN CHAMOMILE M_0040010

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ROMAN CHAMOMILE M_0040010	
CAS-No.	: 8015-92-7
EINECS Number	: 283-467-5
INDEX NUMBER	: No data available.
REACH Registration No.	: No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements



GHS02



GHS07



GHS09

WARNING

H226: Flammable liquid and vapor.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P370+P378: In case of fire: Use water for extinction.

P391: Collect spillage.

P321: Specific treatment (see this label).

P363: Wash contaminated clothing before reuse.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

EUH208: Contains Beta PINENE, (-) TRANS BETA CARYOPHYLLENE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8015-92-7



Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
Alpha PINENE	80-56-8		[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester	97-86-9	607-113-00-X	[1 % , 5 %]	Flam. Liq. 3, H226 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 STOT SE 3 (RI), H335 Aquatic Acute 1, H400
CAMPHENE	79-92-5		[0.1 % , 1 %]	Flam. Sol. 2, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beta PINENE	127-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

[x] 4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.



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4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

[x] 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

[x] 7 HANDLING AND STORAGE



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7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
 Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
 Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
Alpha PINENE	80-56-8	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None UNITED STATES: 20 (ACGIH)
LIMONENES	138-86-3	[1 % , 5 %]	CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None UNITED STATES: 30 (AIHA)

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.
 Eye protection: Wear goggles/face shield.
 Hand protection: Gloves.
 Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.



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Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 58 °C (136.4 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.9 / 0.91
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.



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- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

[x] 10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

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LD50 Dermal(mg/kg) > 5000 (Estimated)
 LD50 Oral(mg/kg) > 5000 (Estimated)
 CL50 Inhalation - vapor(mg/l) > 100 (Estimated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
Alpha PINENE	80-56-8	[1 % , 5 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
2-Propenoic acid, 2-methyl-, 2-methylpropyl ester	97-86-9	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects



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No data available.

11.6 Other information

No other information noted.

[x] 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

[x] 13 DISPOSAL CONSIDERATIONS



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13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

ADR

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : No data available.

IATA

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.

IMDG

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID POLLUTANT
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 1169
Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : No data available.

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or



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mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

No data available.

15.2 Chemical safety assessment

No data available.

[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use water for extinction.
P391	Collect spillage.
P321	Specific treatment (see this label).
P363	Wash contaminated clothing before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.



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P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Flam. Sol. 2	: Flammable solid Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B
STOT SE 3 (RI)	: Specific target organ toxicity - single exposure Category 3 Respiratory Tract

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

**We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that apply to its activities.**

SAFETY DATA SHEET

ROMAN CHAMOMILE M_0040010



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SAFETY DATA SHEET

Product : ROSE TURKEY M_0040083

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ROSE TURKEY M_0040083

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone number : NCEC (regional) +65 3158 1074 / (local) 007 803 011 0293
Official advisory body number : (62) 21 893 7640

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 4: Combustible liquid.

Health Dangers

Acute Tox. 5 Oral: May be harmful if swallowed.
Acute tox. 5 Dermal: May be harmful in contact with skin.
Skin irrit. 3: Causes mild skin irritation.
Skin Sens. 1: May cause an allergic skin reaction.
Eye Irrit. 2A: Causes serious eye irritation.

Environmental hazards

Aquatic Acute 3: Harmful to aquatic life.
Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Pictogram



SAFETY DATA SHEET

Product : ROSE TURKEY M_0040083



GHS07

Signal Word

WARNING

Hazard Statements

H227: Combustible liquid.
H303+H313: May be harmful if swallowed or in contact with skin.
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P337+P313: If eye irritation persists: Get medical advice
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P273: Avoid release to the environment.
P370+P378: In case of fire: Use water for extinction.
P305+P351+P338: IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment (see this label).
P363: Wash contaminated clothing before reuse.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

Product : ROSE TURKEY M_0040083



3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

Component	CAS	Concentration limit	CLASSIFICATION
PHENETHYL ALCOHOL	60-12-8	[20 % , 50 %]	Acute Tox. 4 Oral, H302 Acute tox. 5 Dermal, H313 Skin irrit. 3, H316 Eye Irrit. 2A, H319
ROSE ABS TURKEY	8007-01-0	[20 % , 50 %]	Acute tox. 5 Dermal, H313
CITRONELLOL	106-22-9	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Acute tox. 5 Dermal, H313 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
GERANIOL	106-24-1	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 3, H402
ETHYL ALCOHOL	64-17-5	[1 % , 5 %]	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
NEROL	106-25-2	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
BENZYL ALCOHOL	100-51-6	[1 % , 5 %]	Acute Tox. 4 Oral, H302 Acute tox. 5 Dermal, H313 Eye Irrit. 2A, H319
EUGENOL	97-53-0	[0.1 % , 1 %]	Acute Tox. 5 Oral, H303 Skin irrit. 3, H316 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
METHYL EUGENOL	93-15-2	[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 2, H401
FARNESOL	4602-84-0	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRAL	5392-40-5	[0.1 % , 1 %]	Acute tox. 5 Dermal, H313 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317



SAFETY DATA SHEET

Product : ROSE TURKEY M_0040083

Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.



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Product : ROSE TURKEY M_0040083

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

Product : ROSE TURKEY M_0040083



8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From ORANGE to RED
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 66 °C (150.9 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.9550 / 0.9950
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.



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- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

Product : ROSE TURKEY M_0040083



11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) 2754.3 (Calculated)
 LD50 Oral(mg/kg) 2421.5 (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
PHENETHYL ALCOHOL	60-12-8	>= 20 % - 50 %	2500 <i>Estimated</i>	1610 <i>Estimated</i>	> 100 <i>Estimated</i>
ROSE ABS TURKEY	8007-01-0	>= 20 % - 50 %	2500 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRONELLOL	106-22-9	>= 1 % - 5 %	2650 <i>Estimated</i>	3450 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
ETHYL ALCOHOL	64-17-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	>= 1 % - 5 %	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
BENZYL ALCOHOL	100-51-6	>= 1 % - 5 %	2500 <i>Estimated</i>	1620 <i>Measured</i>	> 100 <i>Estimated</i>
EUGENOL	97-53-0	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	2300 <i>Estimated</i>	> 100 <i>Estimated</i>
METHYL EUGENOL	93-15-2	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	810 <i>Estimated</i>	> 100 <i>Estimated</i>
FARNESOL	4602-84-0	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRAL	5392-40-5	>= 0.1 % - 1 %	2250 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Serious eye damage/irritation : No data available.
 Germ cell mutagenicity : No data available.
 Reproductive toxicity : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Skin Sensitization : No data available.
 Cancerogenicity : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Aspiration Hazard : No data available.
 Respiratory Sensitization : No data available.



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Skin corrosion/irritation : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.
Toxicity Rat : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents,



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the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient)	: No data available.
Bio Concentration Factor	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

Not regulated

IATA

Not regulated

IMDG

Not regulated

RID

Not regulated

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 Other information

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H225	Highly flammable liquid and vapor.
H227	Combustible liquid.

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H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H303+H313	May be harmful if swallowed or in contact with skin.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P337+P313	If eye irritation persists: Get medical advice
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P370+P378	In case of fire: Use water for extinction.
P305+P351+P338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P363	Wash contaminated clothing before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2:Carbone Dioxyde
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50:Lethal Dose at 50%
CL50: Concentration Lethal at 50%
UN: United Nation

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ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



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[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ROSEMARY M_0020246

Your reference	:	M_0020246 ROSEMARY
CAS-No.	:	8000-25-7
EINECS Number	:	283-291-9
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2120086955-39-0002

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Films
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number : CN number 400-6267-911

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

Flam. Liq. 3: Flammable liquid and vapor.

Health Dangers

Acute Tox. 4 Oral: Harmful if swallowed.

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Dam. 1: Causes serious eye damage.

STOT-SE 2: May cause damage to organs.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.



Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.

2.2 Label elements



GHS02



GHS05



GHS07



GHS08



GHS09

DANGER

H226: Flammable liquid and vapor.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H371: May cause damage to organs.

H410: Very toxic to aquatic life with long lasting effects.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P370+P378: In case of fire: Use water for extinction.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.



EUH208: Contains TERPINOLENE, 1-OCTEN-3-OL, DELTA 3 CARENE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8000-25-7

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
EUCALYPTOL	470-82-6		[50 % , 80 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
CAMPHOR	76-22-2		[10 % , 20 %]	Flam. Sol. 2, H228 Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 4 Inhalation, H332 STOT-SE 2, H371 Aquatic Chronic 2, H411
Alpha PINENE	80-56-8		[10 % , 20 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Beta PINENE	127-91-3		[10 % , 20 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CAMPHENE	79-92-5		[5 % , 10 %]	Flam. Sol. 2, H228 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-TERPINENOL	562-74-3		[5 % , 10 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4 Inhalation, H332 STOT SE 3 (NE), H336
BORNEOL	507-70-0		[5 % , 10 %]	Flam. Sol. 2, H228 Skin irrit. 2, H315 Aquatic Chronic 2, H411
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412



Alpha TERPINEOL	98-55-5		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
MYRCENE	123-35-3		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
PARACYMENE	99-87-6		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361 Aquatic Chronic 2, H411
GAMMA TERPINENE	99-85-4		[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361
LINALOOL	78-70-6	603-235-00-2	[1 % , 5 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
Alpha TERPINENE	99-86-5		[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
TERPINOLENE	586-62-9		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-OCTEN-3-OL	3391-86-4		[0.1 % , 1 %]	Acute Tox. 3 Oral, H301 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Acute Tox. 4 Inhalation, H332
Alpha PHELLANDRENE	99-83-2		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
beta-OCIMENE	13877-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
DELTA 3 CARENE	13466-78-9		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1, H317 Acute Tox. 4 Inhalation, H332 Aquatic Chronic 1, H410

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.



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6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

[x] 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m3)
CAMPHOR	76-22-2	[10 % , 20 %]	CHINA: None GERMANY: 13 FRANCE: 12 INDONESIA: 12 JAPAN: 2 (ACGIH) UNITED STATES: 2 (ACGIH)
Alpha PINENE	80-56-8	[10 % , 20 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) UNITED STATES: 20 (ACGIH)
Beta PINENE	127-91-3	[10 % , 20 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH)



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LIMONENES	138-86-3	[1 % , 5 %]	UNITED STATES: 20 (ACGIH) CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None JAPAN: None UNITED STATES: 30 (AIHA)
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European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 44 °C (111.2 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.



- Vapor pressure: 1 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.9070 / 0.9160
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid



Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	> 5000 (Unknown: 0%) (Calculated)
LD50 Oral(mg/kg)	1353.1 (Unknown: 0%) (Calculated)
CL50 Inhalation - vapor(mg/l)	41.310 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
EUCALYPTOL	470-82-6	[50 % , 80 %[	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
CAMPHOR	76-22-2	[10 % , 20 %[	> 5000 <i>Estimated</i>	1500 <i>Estimated</i>	11 <i>Estimated</i>
Alpha PINENE	80-56-8	[10 % , 20 %[	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[10 % , 20 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
4-TERPINENOL	562-74-3	[5 % , 10 %[	2500 <i>Estimated</i>	1300 <i>Estimated</i>	11 <i>Estimated</i>
BORNEOL	507-70-0	[5 % , 10 %[	> 5000 <i>Estimated</i>	2500 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha TERPINEOL	98-55-5	[1 % , 5 %[	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	[1 % , 5 %[	> 5000 <i>Estimated</i>	4750 <i>Estimated</i>	> 100 <i>Estimated</i>
MYRCENE	123-35-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GAMMA TERPINENE	99-85-4	[1 % , 5 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[1 % , 5 %[	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>



Alpha TERPINENE	99-86-5	[1 % , 5 %[	> 5000 <i>Estimated</i>	1680 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
1-OCTEN-3-OL	3391-86-4	[0.1 % , 1 %[	3300 <i>Measured</i>	175 <i>Measured</i>	11 <i>Estimated</i>
DELTA 3 CARENE	13466-78-9	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	4800 <i>Measured</i>	11 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

[x] 12 ECOLOGICAL INFORMATION



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12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).



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ROSEMARY M_0020246

[x] 14 TRANSPORT INFORMATION

ADR

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Tunnel restriction code : No data available.

IATA

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.

IMDG

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID POLLUTANT
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Marine pollutants : P - pollutant

RID

UN number : 1169
 Transportation name United Nations : EXTRACTS, AROMATIC, LIQUID
 Danger class(es) for transport : Classe 3 : FLAMMABLE LIQUIDS
 Packaging group : III
 Environmental dangers : Yes.
 Tunnel restriction code : No data available.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
Rosemary, ext.	01-2120086955-39-0002

15.2 Chemical safety assessment



SAFETY DATA SHEET

ROSEMARY M_0020246

No data available.

[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P370+P378	In case of fire: Use water for extinction.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.

ROSEMARY M_0020246



P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
 CO2: Carbon dioxide
 LD50: Lethal dose 50
 NTP: National Toxicology program
 IARC: International Agency for Research on Cancer
 OSHA: Occupational Safety and Health Administration
 UN: United Nations
 IMDG : International Maritime Dangerous Goods
 IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Inhalation	: Acute toxicity Category 4 Inhalation
Acute Tox. 3 Oral	: Acute toxicity Category 3 Oral
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Flam. Sol. 2	: Flammable solid Category 2
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B
STOT-SE 2	: Specific target organ toxicity - single exposure Category 2
STOT SE 3 (NE)	: Specific target organ toxicity - single exposure Category 3 Narcotic effect.

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The



information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

ROSEWOOD E_9514253/01

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ROSEWOOD E_9514253/01

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : V. MANE Fils
Address : 620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone : (33).4.93.09.70.00 (Only during office hours)
e-mail : FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

Eye Irrit. 2: Causes serious eye irritation.

Environmental hazards

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements



SAFETY DATA SHEET

ROSEWOOD E_9514253/01



GHS07

WARNING

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains GERANIOL, EUCALYPTOL, (-) TRANS BETA CARYOPHYLLENE, Alpha PINENE, NEROL, NEROLIDOL, CITRONELLOL. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg.
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				1272/2008/CE
LINALOOL	78-70-6	603-235-00-2	[80 % , 100 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319
Alpha TERPINEOL	98-55-5		[1 % , 5 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GERANIOL	106-24-1		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318
EUCALYPTOL	470-82-6		[0.1 % , 1 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
BENZYL BENZOATE	120-51-4	607-085-00-9	[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317
Alpha PINENE	80-56-8		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
NEROL	106-25-2		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318
NEROLIDOL	7212-44-4		[0.1 % , 1 %]	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRONELLOL	106-22-9		[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319

Ingredients having an occupational exposure limit value: See section 8.

[x] 4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.



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4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

[x] 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

[x] 7 HANDLING AND STORAGE



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ROSEWOOD E_9514253/01

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

FRANCE: None
GERMANY: None
UNITED STATES: None
CHINA: None
INDONESIA: None

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.
Eye protection: Wear goggles/face shield.
Hand protection: Gloves.
Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.



[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 76 °C (168.8 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.854 / 0.884
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.



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ROSEWOOD E_9514253/01

9.2 Other information

No other information noted.

[x] 10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	> 5000 (Unknown: 0%) (Calculated)
LD50 Oral(mg/kg)	2794.6 (Unknown: 0%) (Calculated)
CL50 Inhalation - vapor(mg/l)	53.420 (Unknown: 0%) (Calculated)



Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
LINALOOL	78-70-6	[80 % , 100 %]	> 5000 <i>Measured</i>	2790 <i>Measured</i>	50 <i>Estimated</i>
Alpha TERPINEOL	98-55-5	[1 % , 5 %]	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
NEROLIDOL	7212-44-4	[0.1 % , 1 %]	> 5000 <i>Measured</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
CITRONELLOL	106-22-9	[0.1 % , 1 %]	2650 <i>Estimated</i>	3450 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.



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ROSEWOOD E_9514253/01

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

[x] 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.



SAFETY DATA SHEET

ROSEWOOD E_9514253/01

[x] 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

ADR

Not regulated

IATA

Not regulated

IMDG

Not regulated

RID

Not regulated

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
linalool	01-2119474016-42-XXXX
orange, sweet, ext.	01-2119493353-35-XXXX

15.2 Chemical safety assessment

No data available.



[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO₂: Carbon dioxide
LD₅₀: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes



Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that apply to its activities.
This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

SANDALWOOD E_9400507

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

SANDALWOOD E_9400507

CAS-No.	:	8006-87-9
EINECS Number	:	284-111-1
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2120765150-63-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Films
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Official advisory body number : CN number 400-6267-911

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements



SAFETY DATA SHEET

SANDALWOOD E_9400507



GHS07

WARNING

H317: May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P273: Avoid release to the environment.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment (see this label).
P363: Wash contaminated clothing before reuse.
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains LIMONENES, NEROLIDOL. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None
Other information: None
For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8006-87-9

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
Alpha-Santalol	115-71-9		[50 % , 80 %]	Skin Sens. 1B, H317
b-SANTALOL	77-42-9		[20 % , 50 %]	Skin Sens. 1B, H317
LIMONENES	138-86-3	601-029-00-7	[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
NEROLIDOL	7212-44-4		[0.1 % , 1 %]	Skin Sens. 1B, H317



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				Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
 Extinguishing media to avoid
 Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
 Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES



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6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values



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FRANCE: None
GERMANY: None
UNITED STATES: None
CHINA: None
INDONESIA: None
JAPAN: None

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From YELLOW to AMBER YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): >100 °C
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.

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- Vapor pressure: 0.0009 mmHg
- Vapor Density: No data available.
- Specific Gravity: 0.9650 / 0.9850
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid



Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Unknown: 10.56%) (Calculated)
 LD50 Oral(mg/kg) 3803.2 (Unknown: 10.56%) (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Unknown: 10.56%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
Alpha-Santalol	115-71-9	[50 % , 80 %[	> 5000 <i>Estimated</i>	3800 <i>Measured</i>	> 100 <i>Estimated</i>
b-SANTALOL	77-42-9	[20 % , 50 %[	> 5000 <i>Estimated</i>	3800 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROLIDOL	7212-44-4	[0.1 % , 1 %[	> 5000 <i>Measured</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - : No data available.



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Single Exposure
Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.



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Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

Not regulated

IATA

Not regulated

IMDG

Not regulated

RID

Not regulated

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or



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mixture

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
Sandalwood, ext.	01-2120765150-63-XXXX

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods



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IATA : International Air Transport Association

Classification codes

Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Asp. Tox. 1	: Aspiration hazard Category 1
Flam. Liq. 3	: Flammable liquids Category 3
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

**We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.
It is the user's liability to conform to all local, national, and international regulations that apply to its activities.
This automatically generated safety data sheet is valid without signature.**



SAFETY DATA SHEET

TEA TREE M_0053845

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

TEA TREE M_0053845

CAS-No.	:	68647-73-4
EINECS Number	:	285-377-1
INDEX NUMBER	:	No data available.
REACH Registration No.	:	01-2120743651-57-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Fils
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Acute Tox. 4 Oral: Harmful if swallowed.
Asp. Tox. 1: May be fatal if swallowed and enters airways.
Skin irrit. 2: Causes skin irritation.
Skin Sens. 1: May cause an allergic skin reaction.
Eye Irrit. 2: Causes serious eye irritation.
Repr. 2: Suspected of damaging fertility or the unborn child.

Environmental hazards

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements



GHS07

GHS08

GHS09

DANGER

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H361: Suspected of damaging fertility or the unborn child.

H411: Toxic to aquatic life with long lasting effects.

P281: Use personal protective equipment as required.

P201: Obtain special instructions before use.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P391: Collect spillage.

P321: Specific treatment (see this label).

P362: Take off contaminated clothing and wash before reuse.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains Beta PINENE, (-) TRANS BETA CARYOPHYLLENE, LINALOOL, ESTRAGOLE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.



3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 68647-73-4

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
4-TERPINENOL	562-74-3		[20 % , 50 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Eye Irrit. 2, H319
GAMMA TERPINENE	99-85-4		[20 % , 50 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361
Alpha TERPINENE	99-86-5		[10 % , 20 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Alpha TERPINEOL	98-55-5		[5 % , 10 %]	Skin irrit. 2, H315 Eye Irrit. 2, H319
TERPINOLENE	586-62-9		[5 % , 10 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARACYMENE	99-87-6		[5 % , 10 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Repr. 2, H361 Aquatic Chronic 2, H411
Alpha PINENE	80-56-8		[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LIMONENES	138-86-3	601-029-00-7	[1 % , 5 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
EUCALYPTOL	470-82-6		[1 % , 5 %]	Flam. Liq. 3, H226 Skin Sens. 1B, H317
MYRCENE	123-35-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Beta PINENE	127-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(-) TRANS BETA CARYOPHYLLENE	87-44-5		[0.1 % , 1 %]	Asp. Tox. 1, H304 Skin Sens. 1B, H317

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				Aquatic Chronic 4, H413
BETA-OCIMENE	13877-91-3		[0.1 % , 1 %]	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
ESTRAGOLE	140-67-0		[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Chronic 3, H412
LINALOOL	78-70-6	603-235-00-2	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture



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Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

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TEA TREE M_0053845

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

Component	CAS	Concentration limit	VLEP-8h (mg/m ³)
Alpha PINENE	80-56-8	[1 % , 5 %]	CHINA: None GERMANY: None FRANCE: None INDONESIA: None JAPAN: 20 (ACGIH) UNITED STATES: 20 (ACGIH)
LIMONENES	138-86-3	[1 % , 5 %]	CHINA: None GERMANY: 28 FRANCE: None INDONESIA: None JAPAN: None UNITED STATES: 30 (AIHA)

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From COLORLESS to YELLOW

TEA TREE M_0053845



- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 65 °C (149 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.888 / 0.908
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity



No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg)	4140.1 (Unknown: 0%) (Calculated)
LD50 Oral(mg/kg)	1613.3 (Unknown: 0%) (Calculated)
CL50 Inhalation - vapor(mg/l)	> 100 (Unknown: 0%) (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
4-TERPINENOL	562-74-3	[20 % , 50 %[	2500 <i>Estimated</i>	1300 <i>Estimated</i>	> 100 <i>Estimated</i>
GAMMA TERPINENE	99-85-4	[20 % , 50 %[> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha TERPINENE	99-86-5	[10 % , 20 %[> 5000	1680	> 100

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			<i>Estimated</i>	<i>Estimated</i>	<i>Estimated</i>
Alpha TERPINEOL	98-55-5	[5 % , 10 %[> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
TERPINOLENE	586-62-9	[5 % , 10 %[	> 5000 <i>Estimated</i>	3850 <i>Estimated</i>	> 100 <i>Estimated</i>
PARACYMENE	99-87-6	[5 % , 10 %[	> 5000 <i>Estimated</i>	4750 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[1 % , 5 %[	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
EUCALYPTOL	470-82-6	[1 % , 5 %[	> 5000 <i>Estimated</i>	2480 <i>Estimated</i>	> 100 <i>Estimated</i>
LIMONENES	138-86-3	[1 % , 5 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta PINENE	127-91-3	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
ESTRAGOLE	140-67-0	[0.1 % , 1 %[	> 5000 <i>Estimated</i>	1230 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	[0.1 % , 1 %[	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects



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No data available.

11.6 Other information

No other information noted.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

TEA TREE M_0053845



13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TEA TREE ESSENTIAL OIL, Alpha PINENE)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : E

IATA

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TEA TREE ESSENTIAL OIL, Alpha PINENE)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.

IMDG

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TEA TREE ESSENTIAL OIL, Alpha PINENE) POLLUTANT
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TEA TREE ESSENTIAL OIL, Alpha PINENE)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.
Tunnel restriction code : E

14.1 Special precautions for user



SAFETY DATA SHEET

TEA TREE M_0053845

No recommendation given.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 3 (Severe hazard to water)

Regulation (EC) No 1907/2006, if relevant :

REACH	REACH Registration No.
Melaleuca alternifolia, ext.	01-2120743651-57-XXXX

15.2 Chemical safety assessment

No data available.

16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P281	Use personal protective equipment as required.
P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.Do

TEA TREE M_0053845



P301+P312+P330	NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association

Classification codes

Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Aquatic Chronic 2	: Chronic hazards to the aquatic environment Category 2
Aquatic Chronic 3	: Chronic hazards to the aquatic environment Category 3
Aquatic Chronic 4	: Chronic hazards to the aquatic environment Category 4
Asp. Tox. 1	: Aspiration hazard Category 1
Carc. 2	: Carcinogenicity Category 2
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Muta. 2	: Germ cell mutagenicity Category 2
Repr. 2	: Toxic for Reproduction Category 2
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1B	: Skin sensitizer Category 1B



16.3 Key literature references and sources for data

This safety Data Sheet has been prepared in accordance with Regulation EC 1907/2006 and its amendments. The information given correspond to the knowledge we have on the date mentioned on this document and is based on the recommendations of the EFFA and IOFI/IFRA working groups.

To specify modifications that appear in document since the previous version, we note this symbol [X] in front of each section containing a modification.

We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product.

It is the user's liability to conform to all local, national, and international regulations that apply to its activities.

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SAFETY DATA SHEET

VETYVER ROOT M_0053863

[x] 1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

VETYVER ROOT M_0053863

CAS-No.	:	8016-96-4
EINECS Number	:	282-490-8
INDEX NUMBER	:	No data available.
REACH Registration No.	:	No data available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier	:	V. MANE Fils
Address	:	620, Route de GRASSE- 06620 LE-BAR-SUR-LOUP- FRANCE
Telephone	:	(33).4.93.09.70.00 (Only during office hours)
e-mail	:	FR-BSL.REG-SDS@MANE.com

1.4 Emergency telephone number

Emergency telephone : (33).4.93.09.70.00 - (France ORFILA 01.45.42.59.59)

[x] 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION ACCORDING Reg. 1272/2008/CE

Physical hazards

No hazard specified.

Health Dangers

Skin Sens. 1: May cause an allergic skin reaction.

Environmental hazards

No hazard specified.

2.2 Label elements



SAFETY DATA SHEET

VETYVER ROOT M_0053863



GHS07

WARNING

H317: May cause an allergic skin reaction.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see this label).

P363: Wash contaminated clothing before reuse.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

P272: Contaminated work clothing should not be allowed out of the workplace.

EUH208: Contains Alpha PINENE. May produce an allergic reaction.

2.3 Other hazards

PBT-Substances, vPvB-Substances: None

Other information: None

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

[x] 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: 8016-96-4

Component	CAS	INDEX NUMBER	Concentration limit	CLASSIFICATION ACCORDING Reg. 1272/2008/CE
Alpha VETIVONE	15764-04-2		[1 % , 5 %]	Skin Sens. 1B, H317
ISOEUGENOL	97-54-1		[0.1 % , 1 %]	Acute Tox. 4 Oral, H302 Acute Tox. 4 Dermale, H312 Skin irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319
Alpha PINENE	80-56-8		[0.1 % , 1 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410



SAFETY DATA SHEET

VETYVER ROOT M_0053863

Ingredients having an occupational exposure limit value: See section 8.

3.2 Mixtures

Not applicable

[x] 4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

[x] 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam

Extinguishing media to avoid

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.

Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES



SAFETY DATA SHEET

VETYVER ROOT M_0053863

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

[x] 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.
Do not breathe vapor from heated material.

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

[x] 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

National OELs values

FRANCE: None
GERMANY: None



SAFETY DATA SHEET

VETYVER ROOT M_0053863

UNITED STATES: None

CHINA: None

INDONESIA: None

European Indicative OELs values

None

8.2 Exposure controls

Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

[x] 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: PASTY
- Color: From DARK BROWN to BROWN
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): >100 °C
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.

VETYVER ROOT M_0053863



- Vapor Density: No data available.
- Specific Gravity: No data available.
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

[x] 10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.



SAFETY DATA SHEET

VETYVER ROOT M_0053863

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

[x] 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Estimated)
 LD50 Oral(mg/kg) > 5000 (Estimated)
 CL50 Inhalation - vapor(mg/l) > 100 (Estimated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
Alpha VETIVONE	15764-04-2	[1 % , 5 %]	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
ISOEUGENOL	97-54-1	[0.1 % , 1 %]	1900 <i>Estimated</i>	1500 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	[0.1 % , 1 %]	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure



SAFETY DATA SHEET

VETYVER ROOT M_0053863

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

No other information noted.

[x] 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

Toxicity Fish	:	No data available.
Toxicity Alga	:	No data available.
Toxicity Water Flea	:	No data available.

12.2 Persistence and degradability

Biodegradability	:	No data available.
Hydrosolubility	:	No data available.
Comments	:	None

12.3 Bioaccumulative potential

Log Pow (n-Octanol/Water Partition Coefficient)	:	No data available.
Bio Concentration Factor	:	No data available.

12.4 Mobility in soil



SAFETY DATA SHEET

VETYVER ROOT M_0053863

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

[x] 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

ADR

Not regulated

IATA

Not regulated

IMDG

Not regulated

RID

Not regulated

14.1 Special precautions for user

No recommendation given.

[x] 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (WGK): WGK 2 (Hazard to waters)

**Regulation (EC) No 1907/2006, if relevant :**

No data available.

15.2 Chemical safety assessment

No data available.

[x] 16 OTHER INFORMATION**16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:**

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see this label).
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbon dioxide
LD50: Lethal dose 50
NTP: National Toxicology program
IARC: International Agency for Research on Cancer
OSHA: Occupational Safety and Health Administration
UN: United Nations
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association



Classification codes

Acute Tox. 4 Dermal	: Acute toxicity Category 4 Dermal
Acute Tox. 4 Oral	: Acute toxicity Category 4 Oral
Aquatic Acute 1	: Acute hazards to the aquatic environment Category 1
Aquatic Chronic 1	: Chronic hazards to the aquatic environment Category 1
Asp. Tox. 1	: Aspiration hazard Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids Category 3
Skin irrit. 2	: Skin corrosion/irritation Category 2
Skin Sens. 1	: Skin sensitizer Category 1
Skin Sens. 1A	: Skin sensitizer Category 1A
Skin Sens. 1B	: Skin sensitizer Category 1B

16.3 Key literature references and sources for data

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This automatically generated safety data sheet is valid without signature.



SAFETY DATA SHEET

Product : YLANG YLANG FRAGRANCE E.9315226

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

YLANG YLANG FRAGRANCE E.9315226

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Please find the actual manufacturer on product label

Supplier	: MANE (Shanghai) Fragrances & Flavours Co., Ltd
Address	: No. 612 Shan Lian Road, Baoshan Urban Industry Park- Shanghai 200444-CHINA
Telephone	: +86 21 3611 9900 (Only during office hours)
e-mail	: CN-SH.REG-SDS@mane.com
Supplier	: MANE (China) Fragrances & Flavours Co., Ltd
Address	: No. 988, Xinxingyi Road- Pinghu 314200, Zhejiang Province- CHINA
Telephone	: +86 573 8509 8989 (Only during office hours)
e-mail	: CN-SH.REG-SDS@mane.com

1.4 Emergency telephone number

Official advisory body number : CN number 400-6267-911

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

Flam. Liq. 4: Combustible liquid.

Health Dangers

Acute Tox. 5 Oral: May be harmful if swallowed.
 Asp. Tox. 1: May be fatal if swallowed and enters airways.
 Skin irrit. 2: Causes skin irritation.
 Skin Sens. 1: May cause an allergic skin reaction.
 Eye Irrit. 2A: Causes serious eye irritation.

Environmental hazards

Aquatic Acute 1: Very toxic to aquatic life.



SAFETY DATA SHEET

Product : YLANG YLANG FRAGRANCE E.9315226

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Pictogram



GHS07

GHS08

GHS09

Signal Word

DANGER

Hazard Statements

- H227: Combustible liquid.
- H303: May be harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P337+P313: If eye irritation persists: Get medical advice
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273: Avoid release to the environment.
- P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- P370+P378: In case of fire: Use water for extinction.
- P305+P351+P338: IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P391: Collect spillage.
- P321: Specific treatment (see this label).
- P362: Take off contaminated clothing and wash before reuse.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and



SAFETY DATA SHEET

Product : YLANG YLANG FRAGRANCE E.9315226

regulations, and product characteristics at time of disposal.
 P272: Contaminated work clothing should not be allowed out of the workplace.

For a complete list of references and phrases mentioned in this chapter, see chapter 16.

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

Component	CAS	Concentration limit	CLASSIFICATION
GURJUM EXTRACT	8030-55-5	[20 % , 50 %[	Asp. Tox. 1, H304
BENZYL ACETATE	140-11-4	[10 % , 20 %[	Acute Tox. 5 Oral, H303 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
BENZYL ALCOHOL	100-51-6	[5 % , 10 %[	Acute Tox. 4 Oral, H302 Acute tox. 5 Dermal, H313 Eye Irrit. 2A, H319
BENZYL BENZOATE	120-51-4	[5 % , 10 %[	Acute Tox. 4 Oral, H302 Acute tox. 5 Dermal, H313 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Alpha TERPINEOL	98-55-5	[5 % , 10 %[	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
METHYL BENZOATE	93-58-3	[5 % , 10 %[	Flam. Liq. 4, H227 Acute Tox. 4 Oral, H302 Skin irrit. 3, H316
(-) TRANS BETA CARYOPHYLLENE	87-44-5	[1 % , 5 %[	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
LINALYL ACETATE	115-95-7	[1 % , 5 %[	Flam. Liq. 4, H227 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2B, H320 Aquatic Acute 3, H402
GERANIOL	106-24-1	[1 % , 5 %[	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 3, H402
LINALOOL	78-70-6	[1 % , 5 %[	Flam. Liq. 4, H227

Product : YLANG YLANG FRAGRANCE E.9315226



			Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Gamma TERPINEOL	586-81-2	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Eye Irrit. 2A, H319
alpha CEDRENE	469-61-4	[1 % , 5 %]	Asp. Tox. 1, H304 Skin irrit. 3, H316 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
p-METHYLANISOLE	104-93-8	[1 % , 5 %]	Flam. Liq. 4, H227 Acute Tox. 4 Oral, H302 Skin irrit. 2, H315 Repr. 2, H361 Aquatic Acute 3, H402
CINNAMYL ACETATE	103-54-8	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Aquatic Acute 3, H402
NEROL	106-25-2	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
CITRONELLOL	106-22-9	[1 % , 5 %]	Acute Tox. 5 Oral, H303 Acute tox. 5 Dermal, H313 Skin irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Beta TERPINEOL	138-87-4	[1 % , 5 %]	Flam. Liq. 4, H227 Acute Tox. 5 Oral, H303 Skin irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Alpha PINENE	80-56-8	[1 % , 5 %]	Flam. Liq. 3, H226 Acute Tox. 4 Oral, H302 Asp. Tox. 1, H304 Skin irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
GERANYLE ACETATE	105-87-3	[0.1 % , 1 %]	Skin irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
BENZYL SALICYLATE	118-58-1	[0.1 % , 1 %]	Acute Tox. 5 Oral, H303 Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
EUGENOL	97-53-0	[0.1 % , 1 %]	Acute Tox. 5 Oral, H303 Skin irrit. 3, H316 Skin Sens. 1B, H317 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
NERYL ACETATE	141-12-8	[0.1 % , 1 %]	Skin Sens. 1B, H317 Aquatic Acute 2, H401
NEROLIDOL	7212-44-4	[0.1 % , 1 %]	Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
METHYL ISOEUGENOL	93-16-3	[0.1 % , 1 %]	Acute Tox. 5 Oral, H303



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			Skin Sens. 1B, H317 Aquatic Acute 3, H402
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Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



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Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

There must be no release into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the SDS for Personal Protective Equipment.
For waste disposal, see section 13 of the SDS.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None



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8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: From LIGHT YELLOW to YELLOW
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°C): 84 °C (183.2 °F)
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 0.9700 / 0.9800
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.



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- Decomposition temperature (°C): No data available.
- Viscosity at 40°C: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

LD50 Dermal(mg/kg) > 5000 (Calculated)
 LD50 Oral(mg/kg) 2969.3 (Calculated)
 CL50 Inhalation - vapor(mg/l) > 100 (Calculated)

Component Information

Component	CAS	Concentration limit	LD50 Dermal (mg/kg)	LD50 Oral (mg/kg)	CL50 Inhalation - vapor (mg/l)
GURJUM EXTRACT	8030-55-5	>= 20 % - 50 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
BENZYL ACETATE	140-11-4	>= 10 % - 20 %	> 5000 <i>Estimated</i>	2490 <i>Estimated</i>	> 100 <i>Estimated</i>
BENZYL ALCOHOL	100-51-6	>= 5 % - 10 %	2500 <i>Estimated</i>	1620 <i>Measured</i>	> 100 <i>Estimated</i>
BENZYL BENZOATE	120-51-4	>= 5 % - 10 %	4000 <i>Estimated</i>	1500 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha TERPINEOL	98-55-5	>= 5 % - 10 %	> 5000 <i>Estimated</i>	4300 <i>Estimated</i>	> 100 <i>Estimated</i>
METHYL BENZOATE	93-58-3	>= 5 % - 10 %	> 5000 <i>Estimated</i>	1300 <i>Estimated</i>	> 100 <i>Estimated</i>
(-) TRANS BETA CARYOPHYLENE	87-44-5	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALYL ACETATE	115-95-7	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANIOL	106-24-1	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3600 <i>Estimated</i>	> 100 <i>Estimated</i>
LINALOOL	78-70-6	>= 1 % - 5 %	> 5000 <i>Measured</i>	2790 <i>Measured</i>	> 100 <i>Estimated</i>
Gamma TERPINEOL	586-81-2	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3934 <i>Estimated</i>	> 100 <i>Estimated</i>
alpha CEDRENE	469-61-4	>= 1 % - 5 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
p-METHYLANISOLE	104-93-8	>= 1 % - 5 %	> 5000 <i>Estimated</i>	1900 <i>Measured</i>	> 100 <i>Estimated</i>
CINNAMYL ACETATE	103-54-8	>= 1 % - 5 %	> 5000 <i>Estimated</i>	3300 <i>Estimated</i>	> 100 <i>Estimated</i>
NEROL	106-25-2	>= 1 % - 5 %	> 5000 <i>Estimated</i>	4500 <i>Measured</i>	> 100 <i>Estimated</i>
CITRONELLOL	106-22-9	>= 1 % - 5 %	2650 <i>Estimated</i>	3450 <i>Estimated</i>	> 100 <i>Estimated</i>
Beta TERPINEOL	138-87-4	>= 1 % - 5 %	> 5000 <i>Estimated</i>	2075 <i>Estimated</i>	> 100 <i>Estimated</i>
Alpha PINENE	80-56-8	>= 1 % - 5 %	> 5000 <i>Estimated</i>	500 <i>Estimated</i>	> 100 <i>Estimated</i>
GERANYLE ACETATE	105-87-3	>= 0.1 % - 1 %	> 5000 <i>Estimated</i>	> 5000 <i>Estimated</i>	> 100 <i>Estimated</i>
BENZYL SALICYLATE	118-58-1	>= 0.1 % - 1 %	> 5000	2200	> 100

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			<i>Estimated</i>	<i>Measured</i>	<i>Estimated</i>
EUGENOL	97-53-0	>= 0.1 % - 1 %	<i>Estimated</i> > 5000	<i>Measured</i> 2300	<i>Estimated</i> > 100
NERYL ACETATE	141-12-8	>= 0.1 % - 1 %	<i>Estimated</i> > 5000	<i>Estimated</i> > 5000	<i>Estimated</i> > 100
NEROLIDOL	7212-44-4	>= 0.1 % - 1 %	<i>Measured</i> > 5000	<i>Estimated</i> > 5000	<i>Estimated</i> > 100
METHYL ISOEUGENOL	93-16-3	>= 0.1 % - 1 %	<i>Estimated</i> > 5000	<i>Estimated</i> 2500	<i>Estimated</i> > 100

Skin corrosion/irritation : No data available.
 Specific Target Organ - Repeated Exposure : No data available.
 Respiratory Sensitization : No data available.
 Reproductive toxicity : No data available.
 Germ cell mutagenicity : No data available.
 Serious eye damage/irritation : No data available.
 Skin Sensitization : No data available.
 Aspiration Hazard : No data available.
 Specific Target Organ - Single Exposure : No data available.
 Specific Target Organ (NE) - Single Exposure : No data available.
 Cancerogenicity : No data available.

11.2 Information on likely routes of exposure

No data available.

11.3 Symptoms related to the physical, chemical, and toxicological characteristics

No data available.

11.4 Delayed, Immediate, and Chronic Effects of Short- and Long-Term Exposure

No data available.

11.5 Interactive effects

No data available.

11.6 Other information

GBZ 2.1 /2007 (original standard): None

12 ECOLOGICAL INFORMATION



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12.1 Toxicity

Product Information

Toxicity Fish : No data available.
Toxicity Alga : No data available.
Toxicity Water Flea : No data available.
Toxicity Rat : No data available.

12.2 Persistence and degradability

Biodegradability : No data available.
Hydrosolubility : No data available.
Comments : None

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

Log Pow (n-Octanol/Water Partition Coefficient) : No data available.
Bio Concentration Factor : No data available.
Bioaccumulative potential : No data available.
Mobility in soil : No data available.
Other adverse effects : No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

14 TRANSPORT INFORMATION

ADR

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(PERFUMERY PRODUCTS)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND

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Packaging group : III
Environmental dangers : Yes.

ARTICLES

: III

: Yes.

IATA

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(PERFUMERY PRODUCTS)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.

IMDG

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(PERFUMERY PRODUCTS)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.
Marine pollutants : P - pollutant

RID

UN number : 3082
Transportation name United Nations : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(PERFUMERY PRODUCTS)
Danger class(es) for transport : Class 9 : MISCELLANEOUS DANGEROUS SUBSTANCES AND
ARTICLES
Packaging group : III
Environmental dangers : Yes.

14.1 Special precautions for user

No recommendation given.

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

16 OTHER INFORMATION**16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:**

H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P337+P313	If eye irritation persists: Get medical advice
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P370+P378	In case of fire: Use water for extinction.
P305+P351+P338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P321	Specific treatment (see this label).
P362	Take off contaminated clothing and wash before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
P272	Contaminated work clothing should not be allowed out of the workplace.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service
CO2: Carbone Dioxyde
SDS: Safety Data Sheet
OELs: Occupational Exposure Limits
LD50: Lethal Dose at 50%

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CL50: Concentration Lethal at 50%
UN: United Nation
ADR: Accord for Dangerous goods by Road
IATA : International Air Transport Association
IMDG : International Maritime Dangerous Goods
RID: International Carriage of Dangerous goods by Rail

16.3 Key literature references and sources for data

This safety data sheet is prepared in accordance with GB/T16483-2008.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.