

According to Regulation (EU) No 2015/830

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : ALEFIA REED DIFFUSER NARBONNE

Product code : ALE-052

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

Application : SU21 Consumer product. PC3 Air care products. Airfreshener.

# 1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.

Computerweg 3

3542 DP UTRECHT, The Netherlands

 Telephone
 : +31-30-7116 824

 Fax
 : +31-30-3100 141

 E-mail
 : info@dovox.nl

 Website
 : www.dovox.nl

# 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-30-7116 824 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

(24/7)

# SECTION 2 HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

CLP classification : Flammable liquid, category 3. Skin sensitization, category 1. Hazardous to the aquatic environment

(1272/2008/EC) — Chronic category 2.

Human health hazards : May cause an allergic skin reaction.

Physical/chemical hazards : Flammable.

Environmental hazards : Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :







Signal word : Warning

H- and P-phrases : H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

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P280 gloves Wear protective gloves.

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

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

P362+P364 Take off contaminated clothing and wash it before reuse.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :

\*\*\*

Signal word : Warning

H- and P-phrases : H317 May cause an allergic skin reaction.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.
P280 gloves Wear protective gloves.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one; alpha-

Hexylcinnamaldehyde; 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one; 1,3,4,6,7,8a-

 $Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methan on a phthalin-8 (5H)-one\ ;\ Citronellol\ .$ 

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Substance name

Product description : Mixture. Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
(2-Methoxymethylethoxy)propanol	50 - 75	34590-94-8	252-104-2	MAC	
Ethanol	10 - < 20	64-17-5	200-578-6		
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	2,5 - < 5	54464-57-2	259-174-3		01-2119489989-04
tetramethyl-2-naphtyl)ethan-1-one					
Oxydipropanol	1 - < 5	25265-71-8	246-770-3	MAC	
2,6-Dimethyloct-7-en-2-ol	1 - < 5	18479-58-8	242-362-4		01-2119457274-37
alpha-Hexylcinnamaldehyde	1 - < 2,5	101-86-0	202-983-3		01-2119533092-50
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	0,1 - < 1	33704-61-9	251-649-3		01-2119977131-40
pentamethyl-4H-inden-4-one					
1,3,4,6,7,8a-Hexahydro-1,1,5,5-	0,1 - < 1	23787-90-8	245-890-3		
tetramethyl-2H-2,4a-					
methanonaphthalin-8(5H)-one					
Citronellol	0,1 - < 1	106-22-9	203-375-0		01-2119453995-23

H-phrases

Pictograms

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(2-Methoxymethylethoxy)propanol Ethanol 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8- tetramethyl-2-naphtyl)ethan-1-one	Flam. Liq. 2; Eye Irrit. 2 Skin Irrit. 2; Skin Sens 1B; Aquatic Chronic 1	I The state of the	 GHS02; GHS07 GHS07; GHS09	H319 : C >= 50 % M (chronic) = 1
Oxydipropanol		<b> </b>		
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2	H317; H400; H411	GHS07; GHS09	M (acute) = 1
1,2,3,5,6,7-hexahydro-1,1,2,3,3- pentamethyl-4H-inden-4-one	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2; Aquatic Chronic 2		GHS07; GHS09	
1,3,4,6,7,8a-Hexahydro-1,1,5,5- tetramethyl-2H-2,4a- methanonaphthalin-8(5H)-one	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
Citronellol	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H319; H317; H315	GHS07	

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

# SECTION 4 FIRST-AID MEASURES

# 4.1. Description of first aid measures

First aid measures

Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.

Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.

Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth

to an unconscious person. Consult a doctor if victim feels unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : No specific effects and/or symptoms are known.

Skin contact : May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry

skin.

Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

# 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

# SECTION 5 FIRE-FIGHTING MEASURES

# 5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.

Not suitable : Water jet.

# 5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

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Hazardous thermal decomposition products

: Carbon monoxide may be evolved if incomplete combustion occurs.

#### 5.3. Advice for firefighters

Special protective equipment for fire-fighters

: Use adequate respiratory equipment in case of insufficient ventilation.

# SECTION 6 ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact

with spilled or released material. Keep away from sources of ignition — No smoking. Vapours are

heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

#### 6.2. Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water. In case of large spills:

contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an

authorised waste collection point. Wash away remainder with plenty of water and soap.

# 6.4. Reference to other sections

Reference to other sections: See also section 8.

#### SECTION 7 HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Avoid contact with skin and eyes. Avoid splashing. Wear protective

clothing.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Protect

from sunlight.

Recommended packaging : Keep only in the original container. Non recommended : Steel (except stainless steel).

packaging

7.3. Specific end use(s)

Use : Use only as directed.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

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Occupational exposure limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

# Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
(2-Methoxymethylethoxy)propanol	GB	308	-	Skin	
(2-Methoxymethylethoxy)propanol	EC	308	<b>-</b>	Skin	
Ethanol	GB	1920	-	-	
Ethanol		260	1900	<u>-</u>	Mac: NL
Oxydipropanol		67	-		MAC: DE

# Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-te	rm	DNEL, long-term	DNEL, long-term	
	exposure					
	,	Local effect	Systemic effect	Local effect	Systemic effect	
(2-Methoxymethylethoxy)propanol	Dermal				65 mg/kg bw/day	
	Inhalation				310 mg/m3	
Ethanol	Dermal				343 mg/kg bw/day	
	Inhalation	1900 mg/m3			950 mg/m3	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Dermal	0,1011 mg/kg			1,73 mg/kg bw/day	
tetramethyl-2-naphtyl)ethan-1-one		bw				
	Inhalation				1,76 mg/m3	
Oxydipropanol	Dermal				84 mg/kg bw/day	
	Inhalation				238 mg/m3	
2,6-Dimethyloct-7-en-2-ol	Dermal				20,8 mg/kg bw/day	
	Inhalation				73,5 mg/m3	
alpha-Hexylcinnamaldehyde	Dermal	0,525 mg/kg		0,525 mg/kg bw/	18,2 mg/kg bw/day	
		bw		day		
	Inhalation	6,28 mg/m3			0,078 mg/m3	
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Dermal			5,510 mg/kg bw/	0,42 mg/kg bw/day	
pentamethyl-4H-inden-4-one				day		
	Inhalation				1,47 mg/m3	
Citronellol	Dermal				45,8 mg/kg bw/day	
	Inhalation				161,6 mg/m3	

# Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-te	rm	DNEL, long-tern	า
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
(2-Methoxymethylethoxy)propanol	Dermal				15 mg/kg bw/day
	Inhalation				37,2 mg/m3
	Oral				1,67 mg/kg bw/day
Ethanol	Dermal				206 mg/kg bw/day
	Inhalation	950 mg/m3			114 mg/m3
	Oral				87 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Dermal	0,0506 mg/kg			0,86 mg/kg bw/day
tetramethyl-2-naphtyl)ethan-1-one		bw			
, ,,	Inhalation				0,43 mg/m3
	Oral				0,25 mg/kg bw/day
Oxydipropanol	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3
	Oral				24 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				12,5 mg/kg bw/day
_,	Inhalation				21,7 mg/m3

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	Oral	1 1		12,5 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Dermal	0,0787 mg/kg	0,0787	mg/kg 9,11 mg/kg bw/day
		bw	bw/day	
	Inhalation	4,71 mg/m3		0,019 mg/m3
	Oral			0,056 mg/kg bw/day
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Dermal		3,241 n	ng/kg bw/ 0,25 mg/kg bw/day
pentamethyl-4H-inden-4-one			day	
	Inhalation			0,44 mg/m3
	Oral			0,25 mg/kg bw/day
Citronellol	Dermal			27,5 mg/kg bw/day
	Inhalation			47,8 mg/m3
	Oral			13,75 mg/kg bw/day

# Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
(2-Methoxymethylethoxy)propanol	Water	19 mg/l	1,9 mg/l	
	Sediment	70,2 mg/kg	7,02 mg/kg	
	Intermittent water			190 mg/l
	STP			4168 mg/l
	Soil			2,74 mg/kg
Ethanol	Water	0,96 mg/l	0,79 mg/l	
	Sediment	3,6 mg/kg	2,9 mg/kg	
	Intermittent water			2,75 mg/l
	STP			580 mg/l
	Soil			0,63 mg/kg
	Oral			0,72 mg/kg food
Oxydipropanol	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,238 mg/kg	0,0238 mg/kg	
	Intermittent water			1 mg/l
	STP			1000 mg/l
	Soil			0,0253 mg/kg
	Oral			313 mg/kg food
2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	
	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
	Oral			111 mg/kg food
alpha-Hexylcinnamaldehyde	Water	0,03 mg/l	0,003 mg/l	
	Sediment	47,7 mg/kg	4,77 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
	Soil			9,51 mg/kg
	Oral			6,6 mg/kg food
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Water	0,004 mg/l	0 mg/l	
pentamethyl-4H-inden-4-one		, ,		
	Sediment	0,0991 mg/kg	0,00991 mg/kg	
	STP			10 mg/l
	Soil			0,0174 mg/kg
	Oral			1,11 mg/kg food
Citronellol	Water	0,0024 mg/l	0,00024 mg/l	
	Sediment	0,0256 mg/kg	0,00256 mg/kg	
	Intermittent water	, 5 5	,	0,024 mg/l
	STP			580 mg/l
	Soil			0,00371 mg/kg

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#### 8.2. Exposure controls

: Comply with standard precautionary measures for working with chemicals. Engineering measures

Hygienic measures When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale Respiratory protection:

exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance

with EN 140.

Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Hand protection

Indication of permeation breakthrough time: 6 hours.

Eve protection Wear appropriate safety glasses when there is danger of possible eve contact.

#### **SECTION 9** PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance : Liquid. Colour Colourless. Odour Perfumed. Odour threshold : Not known. Ηq : 2 - 11,5 Solubility in water Dispersible.

Partition coefficient (n-: Not known.

octanol/water)

: 37 °C Flash point Closed Cup (ISO 2719, EN 11, DIN 51758, ASTM D 93)

Flammability (solid, gas) : Not applicable. Liquid. See flashpoint.

Auto ignition temperature : > 207 °C Boiling point/boiling range : 78 °C

Melting point/melting range : < -20 °C

Explosive properties None known. Does not contain explosives.

Explosion limits (% in air) : Not known. Lower explosion limit in air (%): 1,1 ( (2-Methoxymethylethoxy)propanol )

Upper explosion limit in air (%): 19 Ethanol

Not measured. Not relevant for mixtures.

Oxidising properties Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not known.

Viscosity (20°C) : 1 mm2/sec (1 mm2/sec = 1cSt)

Viscosity (40°C) : Not relevant. The product contains < 10% substances having an aspiration hazard.

Vapour pressure (20°C) : > 2300 Pa

Vapour density (20°C) : >1 (air = 1)

Relative density (20°C) : 1 g/ml

Evaporation rate : < 1 (n-butyl acetate = 1)

9.2. Other information

Other information : Not relevant.

#### **SECTION 10** STABILITY AND REACTIVITY

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10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

# SECTION 11 TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 5,332 mg/l. Ingredients of unknown toxicity: 6 %. ATE: > 5 mg/l. Low toxicity.

Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.

Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Eve contact

Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Ingestion

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met. May

cause hampered eyesight.

Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration

hazard. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

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Carcinogenicity : Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available

data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not

classified - based on available data, the classification criteria are not met.

# Toxicological information:

loxicological information:	-			
Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	Skin irritation	Non-irritant		Rabbit
	Skin sensitisation	6825 ug/cm2	OECD 429	Mouse
İ	LD50 (oral)	> 5000 mg/kg bw		Rat
İ	LD50 (dermal)	> 5000 mg/kg bw		Rat
	Mutagenicity	Not mutagenic	OECD 471	
	NOAEL (development,	480 mg/kg bw/d	OECD 414	Rat
	oral)			
alpha-Hexylcinnamaldehyde	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	
į	Genotoxicity - in vitro	Not genotoxic	OECD 476	
į	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
į	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) -	30 mg/kg bw/d	Read across	Rat
	estimate			
į	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
į	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
İ	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
pentamethyl-4H-inden-4-one	,	"		
ľ	LD50 (oral)	> 2325 mg/kg bw	OECD 401	Rat
į	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Irritant		Human
	Eye irritation	Irritant		
į	NOAEL (oral)	10 mg/kg bw/d	OECD 408	Rat
į	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	NOAEL (development,	115 mg/kg bw/d	OECD 421	Rat
	oral)			
į	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
1,3,4,6,7,8a-Hexahydro-1,1,5,5-	Skin irritation	Irritant		
tetramethyl-2H-2,4a-				
methanonaphthalin-8(5H)-one				
, , ,	LD50 (oral)	> 2000 mg/kg bw	OECD 420	Rat
Citronellol	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
į	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw		Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility,	300 mg/kg bw/d	OECD 421	Rat
	dermal)			
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NOAEL (developmental	> 300 mg/kg bw/d	OECD 421	Rat
toxicity, dermal)			
Skin irritation	Moderately irritant	Patch test	Human
Eye irritation	Moderately irritant		Rabbit

# SECTION 12 ECOLOGICAL INFORMATION

# 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 23 mg/l. Calculated EC50 (waterflea): 21 mg/l.

Contains 0 % of components with unknown hazards to the aquatic environment.

# 12.2. Persistence and degradability

Persistence - degradability: May cause long-term adverse effects in the aquatic environment.

# 12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Spilled product can penetrate into the ground and get into the surface water and ground water.

#### 12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

#### 12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	EC50 (waterflea)	1,38 mg/l	OECD 202	
tetramethyl-2-naphtyl)ethan-1-one				
	IC50 (algea)	> 2,6 mg/l	OECD 201	
	LC50 (fish)	1,3 mg/l	OECD 203	
	Log P(ow)	5,23		
	BCF	600		
alpha-Hexylcinnamaldehyde	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
	Ultimate aerobic	97 %	OECD 301 F	
	biodegradation (%)			
	IC50 (algea)	> 0,32 mg/l	OECD 201	Desmodesmus
				subspicatus
	Log P(ow)	5,3		

# SECTION 13 DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

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European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a

waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

# SECTION 14 TRANSPORT INFORMATION

# 14.1. UN number

UN nr. : UN 1170

# 14.2. UN proper shipping name

Transport name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport name (IMDG, : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IATA)

# 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 3 Classification code : F1 Packaging group : III

Danger label : 3 + the "environmentally hazardous substance" mark.

Tunnel restriction : D/E

code



Other information : Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or

less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous

substance mark.

IMDG (sea)

Class : 3 Packaging group : III

EmS (fire / spill) : F - E / S - D

Marine pollutant : Yes

Other information : Packagings with a quantity of 5 I or less for liquids or 5 kg, or less for solids need not be marked

with the environmentally hazardous substance mark.

IATA (air)

Class : 3

# 14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to

the transport of this product.

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

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# **SECTION 15 REGULATORY INFORMATION**

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other

regulations.

#### 15.2. Chemical safety assessment

Chemical safety : Not applicable.

assessment

# SECTION 16 OTHER INFORMATION

#### 16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

IATA : International Air Transport Association
IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Liq. 3 : On basis of test data. Skin Sens. 1/1A/1B : Calculation method. Aquatic Chronic 2 : Calculation method.

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Full text of hazard classes mentioned in section 3:

Flam. Liq. 2 : Flammable liquid, category 2. Skin Irrit. 2 : Skin irritation, category 2. Eye Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1/1A/1B : Skin sensitization, category 1/1A/1B.

Aquatic Chronic 1 : Hazardous to the aquatic environment — Chronic category 1.

Aquatic Chronic 2 : Hazardous to the aquatic environment — Chronic category 2.

Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H225 Highly flammable liquid and vapour.

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.

Number format : "," used as decimal separator.

End of safety data sheet.

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