According to Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name : VECTAIR AIROMA OUDH BAERO-26

Product code : 1252122

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

Application : SU22 Professional use. For industrial or institutional use. Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Vectair System LTD

Unit 3, Trident Centre, Armstrong Road

RG248NU BASINGSTOKE, HAMPSHIRE, Great Britain

Telephone : +44 1256 319500 Fax : +44 1256 319520 E-mail : msds@vectair.co.uk

Website : http://www.vectairsystems.co.uk

1.4. Emergency telephone number

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

GB - Telephone : +44 1256 319500 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service +44-844 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable.

CLP classification : Aerosols, category 1. Eye irritation, category 2. Specific target organ toxicity after single exposure, category

(1272/2008/EC)

3.

Human health hazards : Causes serious eye irritation. May produce an allergic reaction. Exposure to high vapour concentrations may

result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling

contents can be harmful or fatal.

Physical/chemical hazards : Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or

any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may

explode from internal pressure build-up when exposed to temperatures exceeding 50 $^{\circ}$ C.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

Other information : Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in

short intervals for a short period only. Ventilate well after use. Harmful to house pets.

2.2. Label elements

Label elements (99/45/EC):

Hazard symbols



F+: Extremely flammable

R- and S-phrases : R12 Extremely flammable.

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S2 Keep out of the reach of children.

S16 Keep away from sources of ignition — No smoking.

S23 Aerosol Do not breathe spray.

Use only in well-ventilated areas.

Additional labelling : Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC):

Hazard pictograms :





Signal word : Danger

H- and P-phrases : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for

full text of EUH208*.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 Do not spray on an open flame or other ignition source.

Additional labelling (99/45/EC and/or 1272/2008/EC)

: * Contains 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one Citronellol Geraniol 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde

3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one May produce an allergic reaction.

 $: \ Where the \ mixture \ is \ labelled \ in \ accordance \ with \ Regulation \ (EC) \ No \ 1272/2008 \ (CLP) \ the \ packaging \ shall$

(also) carry the text: Contains: Propan-2-ol

: 4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

2.3. Other hazards

Other information : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section

1.1.3.7. of Regulation (EC) No 1272/2008). The product does not need to carry all label elements required by Article 17 of Regulation (EC) No 1272/2008 on the basis of Annex I, point 1.5.2.1. Exemption for packages where the contents do not exceed 125 ml. Does not contain PBT or vPvB substances in concentrations higher

than 0,1%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Symbols	R-phrases
	(w/w) (%)				
Isobutane	25 - 50	75-28-5	200-857-2	F+	12
Ethanol	10 - < 20	64-17-5	200-578-6	F	11
Propan-2-ol	5 - < 10	67-63-0	200-661-7	F; Xi	11-36-67
Propane	5 - < 10	74-98-6	200-827-9	F+	12
Propyleneglycol	1 - < 5	57-55-6	200-338-0		
Butane	1 - < 5	106-97-8	203-448-7	F+	12
1,4-Dioxacycloheptadecane-5,17-dione	1 - < 5	105-95-3	203-347-8	N	51/53

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1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl) cyclohexan-1-ol	0,1 - < 1	68877-29-2	272-556-4	Xi	38
()	0,1 - < 1	54464-57-2	259-174-3	Xi; N	38-43-51/53
tetramethyl-2-naphtyl)ethan-1-one					
Citronellol	0,1 - < 1	106-22-9	203-375-0	Xi; N	38-43-51/53
Geraniol	0,1 - < 1	106-24-1	203-377-1	Xi	38-41-43
4-(4-Hydroxy-4-methylpentyl)cyclohex-3-	< 0,1	31906-04-4	250-863-4	Xi	43-52/53
enecarbaldehyde					
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-	< 0,1	127-51-5	204-846-3	Xi; N	43-51/53
1-yl)-3-buten-2-one					
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-	< 0,1	28219-61-6	248-908-8	Xi; N	36-50/53
1-yl)-2-buten-1-ol					

Reference is made to chapter 16 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

Substance name	REACH nr.	Hazard Class	Pictograms	H-phrases
Isobutane	01-2119485395-27	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220; H280
Ethanol	01-2119457610-43	Flam. Liq. 2; Eye Irrit. 2	GHS02; GHS07	H225; H319
Propan-2-ol	01-2119457558-25	Flam. Liq. 2; Eye Irrit. 2;	GHS02; GHS07	H225; H319; H336
		STOT SE 3		
Propane	01-2119486944-21	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220; H280
Propyleneglycol	01-2119456809-23			
Butane	01-2119474691-32	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220: H280
1,4-Dioxacycloheptadecane-5,17-dione		Aquatic Chronic 2	GHS09	H411
1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl)		Skin Irrit. 2; Eye Irrit. 2	GHS07	H315; H319
cyclohexan-1-ol				
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	01-2119489989-04	Skin Irrit. 2; Skin Sens 1;	GHS07; GHS09	H315; H317; H411
tetramethyl-2-naphtyl)ethan-1-one		Aquatic Chronic 2		
Citronellol	01-2119453995-23	Eye Irrit. 2; Skin Irrit. 2;	GHS07	H319; H317; H315
		Skin Sens. 1B		
Geraniol	01-2119552430-49	Skin Sens. 1; Eye Dam.	GHS05; GHS07	H317; H318; H315
		1; Skin Irrit. 2		
4-(4-Hydroxy-4-methylpentyl)cyclohex-3-		Skin Sens. 1; Aquatic	GHS07	H317; H412
enecarbaldehyde		Chronic 3		
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-		Skin Sens. 1; Aquatic	GHS07; GHS09	H317; H411
1-yl)-3-buten-2-one		Chronic 2		
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-	01-2119529224-45	Eye Irrit. 2; Aquatic	GHS07; GHS09	H319; H400; H410
1-yl)-2-buten-1-ol		Chronic 1		

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 : Move victim into fresh air. 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 for at least 15 minutes. Remove contact lenses. Consult a doctor.

Ingestion : Aerosol/mist: Ingestion is unlikely to occur.

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

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness. May cause irritation to respiratory airways and

coughing.

Skin contact : May produce an allergic reaction. May cause dry skin and redness.

Eye contact : Irritant. May cause redness and pain.

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: Aerosol/mist: Ingestion is unlikely to occur. Ingestion

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 : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do

not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and

prevent explosion of the aerosol.

Hazardous thermal decomposition products Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

for fire-fighters

Special protective equipment : Fight a fire where aerosols are involved from a protected position. 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. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. 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.

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

: Collect spilled material in containers. Collect cans in an approved container. Do not pierce aerosols. Wash Methods for cleaning up

away remainder with plenty of water and soap.

6.4. Reference to other sections

: See also section 8. Reference to other sections

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.

Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all

equipment. Do not breathe spray. Do not breathe vapour. Avoid contact with skin and eyes.

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7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool ($< 35^{\circ}$), dry and well-ventilated place. Protect from sunlight and keep away from

heat.

Recommended packaging : Not applicable.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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
		(mg/m3)	(mg/m3)	
Isobutane		1900	2400	
Ethanol	GB	1920	-	-
Ethanol		260	1900	Mac: NL
Propan-2-ol	GB	999	1250	-
Propane		1800	-	
Propyleneglycol	GB	474	-	Total Vapour and Particulates
Propyleneglycol		474		MAC UK: Total Vapour and Particulates
Butane	GB	1450	1810	-
Butane		1450	1810	

Derived no-effect level (DNEL) for workers:

Chemical name	emical name Route of DNEL, short-term		DNEL, long-term		
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Dermal				343 mg/kg bw/day
	Inhalation	1900 mg/m3			950 mg/m3
Propan-2-ol	Dermal				888 mg/kg bw/day
	Inhalation				500 mg/m3
Propyleneglycol	Inhalation			10 mg/m3	168 mg/m3
Citronellol	Dermal				45,8 mg/kg bw/day
	Inhalation				161,6 mg/m3
Geraniol	Dermal				12,5 mg/kg bw/day
	Inhalation				161,6 mg/m3

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-to	DNEL, short-term		DNEL, long-term	
	exposure					
		Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal				206 mg/kg bw/day	
	Inhalation	950 mg/m3			114 mg/m3	
	Oral				87 mg/kg bw/day	
Propan-2-ol	Dermal				319 mg/kg bw/day	
	Inhalation				89 mg/m3	
	Oral				26 mg/kg bw/day	
Propyleneglycol	Inhalation			10 mg/m3	50 mg/m3	
Citronellol	Dermal				27,5 mg/kg bw/day	
	Inhalation				47,8 mg/m3	

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Ī		Oral		13,75 mg/kg bw/day	
Ger	aniol	Dermal		7,5 mg/kg bw/day	
İ		Inhalation		47,8 mg/m3	
İ		Oral		13,75 mg/kg bw/day	

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
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
Propan-2-ol	Water	140,9 mg/l	140,9 mg/l	
-	Sediment	552 mg/kg	552 mg/kg	İ
	Intermittent water			140,9 mg/l
	STP			2251 mg/l
	Soil			28 mg/kg
	Oral			160 mg/kg food
Propyleneglycol	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water			183 mg/l
	STP			20000 mg/l
	Soil			50 mg/kg
	Oral			1133 mg/kg food
1,4-Dioxacycloheptadecane-5,17-dione	Water	0,00187 mg/l	0,000187 mg/l	
	Sediment	1,26 mg/kg	0,13 mg/kg	
	Intermittent water			0,0187 mg/l
	STP			124 mg/l
	Soil			0,25 mg/kg
	Oral			33,3 mg/kg food
Citronellol	Water	0,0024 mg/l	0,00024 mg/l	
	Sediment	0,0256 mg/kg	0,00256 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0,00371 mg/kg
Geraniol	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
	Intermittent water			0,108 mg/l
	STP			0,7 mg/l
	Soil	1	ĺ	0,0167 mg/kg

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

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 : Use of specific protective industrial clothing is not required under normal conditions of use. In case of large

 $scale\ exposure\ wear\ suitable\ protective\ clothing,\ overalls\ or\ suit,\ and\ similar\ boots.\ Suitable\ material:\ butyl.$

Indication of permeation breakthrough time: not known.

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

Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent

or prolonged use and in case of large scale exposure. Suitable material: butyl. ± 0,5 mm. Indication of

permeation breakthrough time: not known.

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Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of

possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : Aerosol.
Colour : Colourless.
Odour : Perfumed.
Odour threshold : Not known.

pH : Not applicable. Almost waterfree product.

Solubility in water : Soluble.

Partition coefficient : Not known.

(n-octanol/water)

Flash point : Not applicable. Not measurable.

Flammability (solid, gas) : Extremely flammable.

Auto ignition temperature : Not applicable. Aerosol container explodes before reaching the auto-ignition point.

Boiling point/boiling range : Not known. Not measurable.

Melting point/melting range : < 0 °C

Explosive properties :

Pressurised container: May burst if heated.

Does not contain oxidizing substances.

Explosion limits (in air) : Not known. Lower explosion limit in air (%): 1,3 (Butane)
: Upper explosion limit in air (%): 19 Ethanol

Oxidising properties : Not applicable.

Decomposition temperature : Not applicable.

Viscosity (20°C) : Not known.
Viscosity (40°C) : Not known.
Vapour pressure (20°C) : 360000 Pa

Vapour density (20°C) : > 1 (air = 1)

Relative density (20°C) : 0,643 g/ml

Evaporation rate : Not known. (n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY

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 : Keep away from sources of ignition and sources of heat. See section 7.

10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

Hazardous decomposition

: Not known.

products

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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: > 10 mg/l. Ingredients of unknown toxicity: 4 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in

unconsciousness and death.

Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data, the

classification criteria are not met.

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

Sensitisation : May produce an allergic reaction.

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

not met.

Eye contact

Corrosion/irritation : Irritant.

Ingestion

Acute toxicity : Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1105 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.

Corrosion/irritation : Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not

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

Carcinogenicity : Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity : Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on

available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Ethanol	Skin irritation	Non-irritant		Rabbit
	LD50 (dermal)	15800 mg/kg bw		Rabbit
	NOAEL (inhalation)	23000 mg/m3		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development,	6400 mg/kg bw/d		
	oral)			
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m3	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity,	> 4400 mg/kg bw/d		Mouse
	oral)			
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse

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	1	L	ī	
		13 mg/m3		
	inh.)	N-4:-	OECD 476	
	Genotoxicity - in vitro Mutagenicity	Not genotoxic Negative	OECD 476 OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	OECD 4/1	Rat
F10pan-2-01	LD50 (oral)	4396 mg/kg bw		Rat
	LD50 (dermal)	12800 mg/kg bw		Rat
	LC50 (inhalation)	46600 mg/m3		Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
		Irritant	OECD 404 OECD 405	Rabbit
	1 *	407 mg/kg bw/d	OLCD 403	Rat
		400 mg/kg bw/d		Rat
	oral)	HOO HIG/Kg DW/G		Kat
	1 · ·	Not carcinogenic	OECD 416	Rat
	oral)	1 tot caremogenie	OLCD 410	Tat
1	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	Guinea pig
	NOAEL (inhalation)	12500 mg/m3	OECD 471	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity,	12500 mg/m3	OLCD 171	Mouse
	inh.)	12300 mg/ms		1110450
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Skin irritation	Non-irritant		Rabbit
tetramethyl-2-naphtyl)ethan-1-one	Skin nittation	T TOTAL ITTEMENT		
contained by a map not recommend to the	NOAEL (development,	240 mg/kg bw/d		Rat
	oral)	2 to mg/kg o w/u		
	'	6825 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rat
	Mutagenicity	Not mutagenic	OECD 471	
Citronellol	Eye irritation	Moderately irritant		Rabbit
	1 -	Moderately irritant	Patch test	Human
	1	> 300 mg/kg bw/d	OECD 421	Rat
	toxicity, dermal)			
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	LD50 (oral)	3450 mg/kg bw		Rat
	Skin irritation	Moderately irritant		Rabbit
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Genotoxicity - in vitro	Not genotoxic		
Geraniol		> 300 mg/kg bw/d	OECD 421	Rat
	toxicity, dermal)			
	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	LD50 (oral)	2100 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	NOAEL (oral)	1000 mg/kg bw/d		Rat
	Skin irritation	Irritant		Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	Genotoxicity - in vivo	Not genotoxic		Mouse
	NOEL (oral)	> 550 mg/kg bw/d		Rat
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
4-(4-Hydroxy-4-methylpentyl)cyclohex-3-	·	4275 ug/cm2	OECD 429	Mouse
enecarbaldehyde				
	Eye irritation	Mildly irritant		Rabbit
•	•	•	•	•

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	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	LD50 (oral)	> 5000 mg/kg bw		Rat
	Skin irritation	Non-irritant	Patch test	Human
	Skin irritation	Irritant		Rabbit
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-	Genotoxicity - in vitro	Not genotoxic		
1-yl)-3-buten-2-one				
	Skin sensitisation	5450 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		
	NOAEL (oral)	> 3,55 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	> 3,55 mg/kg bw/d		Rat
	NOAEL (development,	30 mg/kg bw/d		
	oral)			

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 35 mg/l. Calculated EC50 (waterflea): 40 mg/l. Contains < 1 % of components with

unknown hazards to the aquatic environment. Not classified - based on available data, the classification

criteria are not met.

12.2. Persistence and degradability

Persistence – degradability : No specific information known.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Recyclable metal container. Do not puncture or burn even after use. 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.

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

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14.1. UN number

UN nr. : UN 1950

14.2. UN proper shipping name

Transport name : AEROSOLS

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

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

Class : 2 Classification code : 5F Packaging group : -Danger label : 2,1

:



Other information : Not intended for carriage by inland waterways in tank-vessels.

IMDG (sea)

Class : 2 Packaging group : -

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

Marine pollutant : No

IATA (air)

Class : 2

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.

SECTION 15 REGULATORY INFORMATION

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

 $Community\ regulation\ (EC)\ No\ 453/2010\ (REACH),\ Regulation\ (EC)\ No\ 1272/2008\ (CLP),\ 75/324/EEC\ (aerosols)\ and$

other regulations.

: In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly'

accompanied by the phrase 'Use only as directed'.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

16.1. Other information

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The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 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 (*).

Full text of R-phrases mentioned in section 3:

R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R38 Irritating to skin.

R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

Full text of H-phrases mentioned in section 3:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

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

Full text of hazard classes mentioned in section 3:

Flam. Gas 1 : Flammable gas, category 1.

Press. Gas : Compressed gas.

Flam. Liq. 2 : Flammable liquid, category 2.

Skin Irrit. 2 : Skin irritation, category 2.

Eye Dam. 1 : Serious eye damage, category 1.

Eye Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1 : Skin sensitization, category 1.

STOT SE 3 : Specific target organ toxicity after single exposure, category 3.

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

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

Aquatic Chronic 3 : Hazardous to the aquatic environment — Chronic category 3.

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
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

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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

Number format : "," used as decimal separator.

History

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