According to Regulation (EU) No 453/2010

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

1.1. Product identifier

: VECTAIR AIROMA EXOTIC GARDEN BAERO-07 Product name

Product code : 1252252

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

Application : SU22 Professional use. For industrial or institutional use. PC3 Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Vectair System Ltd

Unit 3, Trident Centre, Armstrong Road

Basingstoke, Hampshire RG24 8NU, Great Britain

Telephone : +44-1256-319500 Fax : +44-1256-319510

E-mail : msds@vectairsystems.com Website : www.vectairsystems.com

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):

(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. Skin sensitization, category 1. Specific target organ toxicity

(1272/2008/EC) after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 3.

Human health hazards : May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.

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.

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

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 °C.

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

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



flammable

R- and S-phrases : R12 Extremely flammable.

: Vectair Airoma Exotic Garden BAERO-07 Product name Page 1/13

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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. H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

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.

P280 gloves Wear protective gloves.

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

: 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; Piperonal; Cis-4-(isopropyl)cyclohexanemethanol; Pentadecan-15-olide; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde; Coumarin; Butylphenyl methylpropional; alpha-Hexylcinnamaldehyde; 3-p-Cumenyl-2-methylpropionaldehyde; Balsams, Peru.

: 6 % 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). Does not contain PBT or vPvB substances in concentrations higher than 0,1%. 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.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Symbols	R-phrases
Isobutane	25 - 50	75-28-5	200-857-2	F+	12
Ethanol	10 - < 20	64-17-5	200-578-6	F	11
Propane	10 - < 20	74-98-6	200-827-9	F+	12
Propan-2-ol	5 - < 10	67-63-0	200-661-7	F; Xi	11-36-67
Propyleneglycol	5 - < 10	57-55-6	200-338-0		

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2-Phenylethanol	1 - < 5	60-12-8	200-456-2	Xn	22-36
Butane	0,1 - < 1	106-97-8	203-448-7	F+	12
Tetrahydro-3-pentyl-2H-pyran-4-yl acetate	0,1 - < 1	18871-14-2	242-640-5		52/53
1,4-Dioxacycloheptadecane-5,17-dione	0,1 - < 1	105-95-3	203-347-8	N	51/53
Piperonal	0,1 - < 1	120-57-0	204-409-7	Xi	43
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-	0,1 - < 1	68155-66-8	268-978-3	N	51/53
tetramethyl-2-naphthyl)ethan-1-one					
Cis-4-(isopropyl)cyclohexanemethanol	0,1 - < 1	13828-37-0	237-539-8	Xi; N	43-51/53
Benzyl benzoate	< 0,1	120-51-4	204-402-9	Xn; N	22-51/53
Pentadecan-15-olide	< 0,1	106-02-5	203-354-6	Xi	43
Alpha-methyl-1,3-benzodioxole-5-	< 0,1	1205-17-0	214-881-6	Xi; N	43-51/53
propionaldehyde					
Coumarin	< 0,1	91-64-5	202-086-7	Xn	22-43-48/22
2-(4-tert-butylbenzyl)propionaldehyde	< 0,1	80-54-6	201-289-8	Xn; N	22-38-43-51/53-62
alpha-Hexylcinnamaldehyde	< 0,1	101-86-0	202-983-3	Xi	38-43
3-p-Cumenyl-2-methylpropionaldehyde	< 0,1	103-95-7	203-161-7	Xn; N	38-43-51/53
Balsams, Peru	< 0,1	8007-00-9	232-352-8	Xi	43

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
Propane	01-2119486944-21	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220; H280
Propan-2-ol	01-2119457558-25	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3	GHS02; GHS07	H225; H319; H336
Propyleneglycol	01-2119456809-23			
2-Phenylethanol	01-2119963921-31	Acute Tox. 4; Eye Irrit. 2	GHS07	H302; H319
Butane	01-2119474691-32	1	GHS02; GHS04	H220: H280
Tetrahydro-3-pentyl-2H-pyran-4-yl acetato		Aquatic Chronic 3		H412
1,4-Dioxacycloheptadecane-5,17-dione	01-2119976314-33	Aquatic Chronic 2	GHS09	H411
Piperonal	01-2119983608-21	Skin Sens. 1	GHS07	H317
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-		Aquatic Chronic 2	GHS09	H411
tetramethyl-2-naphthyl)ethan-1-one				
Cis-4-(isopropyl)cyclohexanemethanol		Skin Sens 1B.	GHS07	H317
Benzyl benzoate		Acute Tox. 4; Aquatic	GHS07; GHS09	H302; H411
		chronic 2		
Pentadecan-15-olide	01-2119987323-31	Skin Sens. 1B; Aquatic Chronic 2	GHS07; GHS09	H317; H411
Alpha-methyl-1,3-benzodioxole-5-		Skin Sens. 1; Aquatic	GHS07; GHS09	H317; H411
propionaldehyde		Chronic 2	,	
Coumarin	01-2119949300-45	Acute Tox. 4; Skin Sens. 1B	GHS07	H302; H317; H373
2-(4-tert-butylbenzyl)propionaldehyde	01-2119485965-18	1	GHS07; GHS08;	H302; H315; H317; H411;
_ (· · · · · · · · · · · · · · · · · ·		Irrit. 2; Skin Sens. 1;	GHS09	H361f
		Acute Tox. 4; Repr. 2		
alpha-Hexylcinnamaldehyde	01-2119533092-50	Skin Sens. 1B	GHS07	H317
3-p-Cumenyl-2-methylpropionaldehyde	01-2119970582-32	Skin Irrit. 2; Skin Sens. 1;		H315; H317
		Aquatic Chronic 2		
Balsams, Peru		Skin Sens. 1	GHS07	H317

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

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

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

a doctor if irritation persists.

: Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor. Eye contact

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

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.

Eve contact : Irritant. May cause redness and pain. Ingestion : Aerosol/mist: Ingestion is unlikely to occur.

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

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

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

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

away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

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

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.
Propane		1800	-	
Propan-2-ol	GB	999	1250	-
Propyleneglycol	GB	474	-	Total Vapour and Particulates
Propyleneglycol		474		MAC UK: Total Vapour and Particulates
Butane	GB	1450	1810	-
Butane	ĺ	1450	1810	

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-ter	DNEL, short-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
2-Phenylethanol	Dermal				21,2 mg/kg bw/day
	Inhalation				59,9 mg/m3
Piperonal	Dermal				0,5 mg/kg bw/day
	Inhalation				3,5 mg/m3
Coumarin	Dermal				0,79 mg/kg bw/day
	Inhalation				5,52 mg/m3
2-(4-tert-butylbenzyl)propionaldehyde	Dermal	0,41 mg/kg bw	20 mg/kg bw		3,33 mg/kg bw/day
	Inhalation	0,29 mg/m3	0,29 mg/m3	0,048 mg/m3	0,048 mg/m3

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alpha-Hexylcinnamaldehyde	Dermal	0,525 mg/kg bw	0,525 mg/kg	18,2 mg/kg bw/day	
			bw/day		
	Inhalation	6,28 mg/m3		0,078 mg/m3	
3-p-Cumenyl-2-methylpropionaldehyde	Dermal			1,67 mg/kg bw/day	
	Inhalation			5,83 mg/m3	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-ter	m	DNEL, long-teri	n
	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
2-Phenylethanol	Dermal				12,7 mg/kg bw/day
	Inhalation				17,7 mg/m3
	Oral		5,1 mg/kg bw		5,1 mg/kg bw/day
Piperonal	Dermal				0,25 mg/kg bw/day
	Inhalation				0,87 mg/m3
	Oral				0,25 mg/kg bw/day
Coumarin	Dermal				0,39 mg/kg bw/day
	Inhalation	İ			1,38 mg/m3
	Oral				0,39 mg/kg bw/day
2-(4-tert-butylbenzyl)propionaldehyde	Dermal	0,41 mg/kg bw	20 mg/kg bw		1,67 mg/kg bw/day
	Inhalation	0,07 mg/m3	0,07 mg/m3	0,012 mg/m3	0,012 mg/m3
	Oral		0,041 mg/kg bw		0,007 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
3-p-Cumenyl-2-methylpropionaldehyde	Dermal				0,83 mg/kg bw/day
	Inhalation				1,45 mg/m3
	Oral				0,83 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	
	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
2-Phenylethanol	Water	0,215 mg/l	0,0215 mg/l	

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1	Sediment	1,454 mg/kg	0,1454 mg/kg	1 1
	Intermittent water	1,131 mg/kg	0,1 15 1 mg/kg	2,15 mg/l
	STP			10 mg/l
	Soil			0,164 mg/kg
1,4-Dioxacycloheptadecane-5,17-dione	Water	0,00187 mg/l	0,000187 mg/l	0,10 1 mg/kg
1,4-Dioxacycioneptadecane-3,17-dione	Sediment	1,26 mg/kg	0,13 mg/kg	
	Intermittent water	1,20 mg/kg	0,15 mg/kg	0,0187 mg/l
	STP			124 mg/l
	Soil			0,25 mg/kg
	Oral			33,3 mg/kg food
 Piperonal	Water	0,0025 mg/l	0,00025 mg/l	33,3 mg/kg 100u
	Sediment	0,0119 mg/kg	0,00025 mg/r 0,0012 mg/kg	
	Intermittent water	0,0117 mg/kg	0,0012 llig/kg	0,025 mg/l
	STP			10 mg/l
	Soil			0,00084 mg/kg
Pentadecan-15-olide	Water	0,0027 mg/l	0,00027 mg/l	0,00064 mg/kg
r chiadecan-15-onde	Sediment	21 mg/kg	4,2 mg/kg	
	STP	21 mg/kg	T,2 mg/kg	10 mg/l
	Soil			10 mg/kg
Coumarin	Water	0,019 mg/l	0,0019 mg/l	10 mg/kg
Countain	Sediment	0,15 mg/kg	0,0019 mg/t	
	Intermittent water	0,13 mg/kg	0,015 Hig/Kg	0,014 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
	Oral			30,7 mg/kg food
2-(4-tert-butylbenzyl)propionaldehyde	Water	0,0020 mg/l	0,0002 mg/l	30,7 mg/kg 100d
2-(4-tert-butyroenzyr)propronaidenyde	Sediment	0,0584 mg/kg	0,0058 mg/kg	
	Intermittent water	0,0304 mg/kg	0,0056 mg/kg	0,0204 mg/l
	STP			1,049 mg/l
	Soil			0,0463 mg/kg
alpha-Hexylcinnamaldehyde	Water	0,03 mg/l	0,003 mg/l	0,0403 mg/kg
aipha-Hexylenmamaidenyde	Sediment	47,7 mg/kg	4,77 mg/kg	
	Intermittent water	77,7 mg/kg	H, // Hig/Kg	0,03 mg/l
	STP			10 mg/l
	Soil			9,51 mg/kg
	Oral			6,6 mg/kg food
3-p-Cumenyl-2-methylpropionaldehyde	Water	0,00109 mg/l	0,00011 mg/l	0,0 mg/kg 1000
b-p-cumenyi-2-memyipropionaldenyde	Sediment	0,00109 ftlg/1 0,126 mg/kg	0,00011 mg/f 0,0126 mg/kg	
	Intermittent water	0,120 mg/kg	0,0120 mg/kg	0,01092 mg/l
	STP			0,01092 mg/l
	Soil			0,0245 mg/kg
	P011			0,0273 mg/kg

8.2. Exposure controls

Engineering measures : 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.

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.

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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: nitril. ± 0.5 mm Indication of

permeation breakthrough time: 4 hours.

Eye protection : Wear appropriate safety glasses 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.

Explosion limits (in air) : Not known. Lower explosion limit in air (%): 1,4 (2-Phenylethanol)

Upper explosion limit in air (%): 19 Ethanol

Oxidising properties : Not applicable. Does not contain oxidizing substances.

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) : 0,637 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: 6 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met. 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: 2 %. ATE: > 2000 mg/kg.bw. Low

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

Corrosion/irritation : Prolonged contact may dry out and defat the skin. 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.

Eye contact

Corrosion/irritation : Irritant.

Ingestion

Acute toxicity : Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1041 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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	NOEL (carcinogenicity,	13 mg/m3		
	inh.)	Not constavia	OECD 476	
	Genotoxicity - in vitro	Not genotoxic Negative	OECD 476 OECD 471	Salmonella typhimurium
D	Mutagenicity	"		**
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d		Rat
	LD50 (oral)	4396 mg/kg bw		Rat
	LD50 (dermal)	12800 mg/kg bw 46600 mg/m3		Rat Rat
	LC50 (inhalation) Skin irritation	_	OECD 404	Rabbit
	Eye irritation	Slightly irritant Irritant	OECD 404 OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d	OECD 403	Rat
	NOAEL (development,	400 mg/kg bw/d		Rat
	oral)	HOO HIG/Kg DW/U		Kat
	NOEL (carcinogenicity,	Not carcinogenic	OECD 416	Rat
	oral)	Not carcinogenic	OECD 410	Kat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	Guinea pig
	NOAEL (inhalation)	12500 mg/m3	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity,	12500 mg/m3	OLCD 4/4	Mouse
	inh.)	12300 mg/m3		Wiouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
2-Phenylethanol	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (developmental	140 mg/kg bw/d	OLCD 471	Rat
	toxicity, dermal)	1 to mg/kg ow/u		
	Skin sensitisation -	Not sensitizing		
	estimate	Tot sensitizing		
	LD50 (dermal)	2535 mg/kg bw	OECD 402	Rabbit
	Skin irritation	Slightly irritant		Rabbit
	Eye irritation	Irritant		Rabbit
	NOAEL (development,	4,3 mg/kg bw/d		Rat
	oral)	, 8 8		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	NOAEL (dermal)	510 mg/kg bw/d	OECD 411	Rat
	LD50 (oral)	1609 mg/kg bw		Rat
Piperonal	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development,	250 mg/kg bw/d	OECD 421	Rat
	oral)			
	NOAEL (fertility, oral)	250 mg/kg bw/d	OECD 478	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 473	Chinese Hamster
	NOEL (carcinogenicity,	250 mg/kg bw/d	OECD 453	Rat
	oral)			
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin irritation	Slightly irritant		Guinea pig
	Skin sensitisation	Sensitizing.		Guinea pig
	NOAEL (oral)	500 mg/kg bw/d	OECD 408	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	LD50 (oral)	2700 mg/kg bw	OECD 401	Rat
L		1 55		

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic life with long lasting effects. Calculated LC50 (fish): 130 mg/l. Calculated EC50

(waterflea): 163 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment.

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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 : 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.

Ecological information:

Chemical name	Property		Method	Test animal
1,4-Dioxacycloheptadecane-5,17-dione	Ultimate aerobic	> 60 %	OECD 301 B	
	biodegradation (%)			
	NOEC (algae)	3,48 mg/l		Desmodesmus subspicatus
	IC50 (algea)	14,58 mg/l		Desmodesmus subspicatus
	EC50 (waterflea)	8,09 mg/l		Daphnia magna
	LC50 (fish)	2,13 mg/l		Brachydanio rerio
	Log P(ow)	2,9		
	BCF	319,3		
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-	Log P(ow)	4,7000		
tetramethyl-2-naphthyl)ethan-1-one				

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

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 (road / railway)

Class : 2

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





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 regulations : 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

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.
R22 Harmful if swallowed.
R36 Irritating to eyes.

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R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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.

R62 Possible risk of impaired fertility.

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.

H302 Harmful if swallowed.H315 Causes skin irritation.

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

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

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

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

EU : European Union

IATA : International Air Transport Association

IBC : Intermediate Bulk Container
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

Number format : "," used as decimal separator.

History

Date of first issue : 29-10-2014

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