According to Regulation (EU) No 453/2010

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

1.1. Product identifier

: VECTAIR AIROMA MYSTIQUE Product name

Product code : 1252247

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

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

1.3. Details of the supplier of the safety data sheet

: Vectair System Ltd Supplier

Unit 3, Trident Centre, Armstrong Road

Basingstoke, Hampshire RG24 8NU, Great Britain

: +44-1256-319500 Telephone Fax : +44-1256-319510 E-mail msds@vectair.co.uk Website : 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 Flammable aerosols, hazard category 1. Eye irritation, hazard category 2. Skin sensitization, hazard (1272/2008/EC)

category 1. Specific target organ toxicity after single exposure, hazard category 3. Hazardous to the aquatic

environment — Chronic hazard 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.

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 °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



F+: Extremely flammable

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R- and S-phrases : R12 Extremely flammable.

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 no expose to temperatures exceeding 50 $^{\circ}$ C/122 $^{\circ}$ 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.

P261 spray Avoid breathing spray. 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: alpha-Hexylcinnamaldehyde; Coumarin.

: 3 % 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%.

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	50 - 75	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
Propyleneglycol	1 - < 5	57-55-6	200-338-0		
Butane	1 - < 5	106-97-8	203-448-7	F+	12
alpha-Hexylcinnamaldehyde	0,1 - < 1	101-86-0	202-983-3	Xi	38-43
1,4-Dioxacycloheptadecane-5,17-dione	0,1 - < 1	105-95-3	203-347-8	N	51/53

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Propane	0,1 - < 1	74-98-6	200-827-9	F+	12
Linalool	0,1 - < 1	78-70-6	201-134-4	Xi	38
Coumarin	0,1 - < 1	91-64-5	202-086-7	Xn	22-43
2-(4-tert-butylbenzyl)propionaldehyde	0,1 - < 1	80-54-6	201-289-8	Xn; N	22-38-43-51/53-62
Benzyl benzoate	0,1 - < 1	120-51-4	204-402-9	Xn; N	22-51/53
d-Limonene	0,1 - < 1	5989-27-5	227-813-5	Xi; N	10-38-43-50/53
Geraniol	< 0,1	106-24-1	203-377-1	Xi	38-41-43
Oils, vetiver	< 0,1	8016-96-4	282-490-8	Xi	36/38-43

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
Propan-2-ol	01-2119457558-25	Flam. Liq. 2; Eye Irrit. 2;	GHS02; GHS07	H225; H319; H336
		STOT SE 3		
Propyleneglycol	01-2119456809-23			
Butane	01-2119474691-32	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220: H280
alpha-Hexylcinnamaldehyde	01-2119533092-50	Skin Sens. 1B	GHS07	H317
1,4-Dioxacycloheptadecane-5,17-dione	01-2119976314-33	Aquatic Chronic 2	GHS09	H411
Propane	01-2119486944-21	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220; H280
Linalool	01-2119474016-42	Skin Irrit. 2	GHS07	Н315; Н319
Coumarin	01-2119949300-45	Acute Tox. 4; Skin Sens.	GHS07	H302; H317
		1		
2-(4-tert-butylbenzyl)propionaldehyde	01-2119485965-18	Aquatic Chronic 2; Skin	GHS07; GHS08;	H302; H315; H317; H411;
		Irrit. 2; Skin Sens. 1;	GHS09	H361f
		Acute Tox. 4; Repr. 2		
Benzyl benzoate		Acute Tox. 4; Aquatic	GHS07; GHS09	H302; H411
		chronic 2		
d-Limonene	01-2119529223-47	Flam. Liq. 3; Skin Irrit.	GHS02; GHS07;	H226; H315; H317; H410
		2; Skin Sens. 1; Aquatic	GHS09	
		Acute 1; Aquatic Chronic		
		1		
Geraniol	01-2119552430-49	Skin Sens. 1; Eye Dam.	GHS05; GHS07	H317; H318; H315
		1; Skin Irrit. 2		
Oils, vetiver		Skin Irrit. 2; Skin Sens. 1;	GHS07	H315; H317; H319
		Eye Irrit. 2		

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 if irritation

persists.

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 cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.

Eye contact : May cause stinging of eyes and redness.

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: May cause a feeling of sickness, vomiting and diarrhoea. 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	-	-
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		1450	1810	
Propane	İ	1800	-	
d-Limonene		110	-	MAC: DE, CH, NL

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-ter	DNEL, short-term		DNEL, long-term	
	exposure					
		Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal			1	343 mg/kg bw/day	
	Inhalation	1900 mg/m3			950 mg/m3	
Propan-2-ol	Dermal	İ			888 mg/kg bw/day	
	Inhalation	İ			500 mg/m3	
Propyleneglycol	Inhalation	İ		10 mg/m3	168 mg/m3	
alpha-Hexylcinnamaldehyde	Dermal				18,2 mg/kg bw/day	
	Inhalation	6,28 mg/m3			0,078 mg/m3	
Linalool	Dermal	İ	5 mg/kg bw		2,5 mg/kg bw/day	
	Inhalation		16,5 mg/m3		2,8 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	
d-Limonene	Inhalation				33,3 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 exposure	DNEL, short-ter	DNEL, short-term		
	,	Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Dermal				206 mg/kg bw/day
	Inhalation	950 mg/m3			114 mg/m3

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	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
alpha-Hexylcinnamaldehyde	Dermal				9,11 mg/kg bw/day
	Inhalation	4,71 mg/m3			0,019 mg/m3
	Oral				0,056 mg/kg bw/day
Linalool	Dermal		2,5 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation		4,1 mg/m3		0,7 mg/m3
	Oral		1,2 mg/kg bw		0,2 mg/kg bw/day
Coumarin	Dermal				0,39 mg/kg bw/day
	Inhalation				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
d-Limonene	Inhalation				8,33 mg/m3
	Oral				4,76 mg/kg bw/day
Geraniol	Dermal				7,5 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	
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
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
1,4-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
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l

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	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
Coumarin	Water	0,019 mg/l	0,0019 mg/l	
	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water			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	
	Sediment	0,0584 mg/kg	0,0058 mg/kg	İ
	Intermittent water			0,0204 mg/l
	STP			1,049 mg/l
	Soil			0,0463 mg/kg
d-Limonene	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
	STP			1,8 mg/l
	Soil			0,262 mg/kg
	Oral			3,33 mg/kg food
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			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.

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: nitril. \pm 0,5 mm Indication of

permeation breakthrough time: < 1 hour.

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.

: Not known.

Partition coefficient

(n-octanol/water)

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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 :

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

Upper explosion limit in air (%): 19 Ethanol ot applicable. Does not contain oxidizing substances.

Pressurised container: May burst if heated.

Oxidising properties : Not applicable.

Decomposition temperature : Not applicable.

Viscosity (20°C) : Not known.
Viscosity (40°C) : Not known.
Vapour pressure (20°C) : 350000 Pa

Vapour density (20°C) : > 1

Relative density (20°C) : 0,637 g/ml Evaporation rate : Not known. (air = 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

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: 3 %. 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.

Corrosion/irritation : May cause irritation to respiratory airways and coughing.

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

Skin contact

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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 : May cause redness. 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 : 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. 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. 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
	Genotoxicity - in vitro	Not genotoxic	OECD 476	İ
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d		Rat
	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
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development,	400 mg/kg bw/d		Rat
	oral)			
	NOEL (carcinogenicity,	Not carcinogenic	OECD 416	Rat
	oral)			
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m3	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity,	12500 mg/m3		Mouse
	inh.)			
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
alpha-Hexylcinnamaldehyde	Genotoxicity - in vivo	Not genotoxic	OECD 474	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat

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	LD50 (dermal) LC50 (inhalation) LD50 (oral) Mutagenicity Skin sensitisation Skin sensitisation Skin irritation NOAEL (development, oral) Eye irritation NOAEL (dermal)	> 3000 mg/kg bw > 5000 mg/m3 > 2450 mg/kg bw Negative 23622 ug/cm2 2372 ug/cm2 Moderately irritant 100 mg/kg bw/d Non-irritant 25 mg/kg bw/d	OECD 402 OECD 403 OECD 401 OECD 471 HRIPT OECD 429 OECD 404 OECD 421	Rabbit Rat Rat Salmonella typhimurium Human Mouse Rabbit Rat Rabbit
	1 -	1 .	OECD 421	Rat
	l '			
	1 *			
	NOAEL (dermal)	25 mg/kg bw/d		Rat
Coumarin	Skin sensitisation	3543 ug/cm2	HRIPT	Human
	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	> 115 mg/kg bw/d		Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (oral)	680 mg/kg bw		Rat
	NOAEL (oral)	> 138,3 mg/kg bw/d		Mouse
	Skin irritation	Non-irritant		Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	> 105 mg/kg bw/d	OECD 474	Mouse
	NOEL (carcinogenicity) -	Not carcinogenic		
	estimate			

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 73 mg/l. Calculated EC50 (waterflea): 167 mg/l.

Contains $<1\ \%$ of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : No specific information known.

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

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	LC50 (fish)	2,13 mg/l		Brachydanio rerio
	Log P(ow)	2,9		
	BCF	319,3		
2-(4-tert-butylbenzyl)propionaldehyde	EC100 (waterflea)	25 mg/l		Daphnia magna
	Ultimate aerobic	68 %	OECD 301 F	
	biodegradation (%)			
	EC50 (waterflea)	10,7 mg/l		Daphnia magna
	LC50 (fish)	2,2 mg/l	OECD 203	Brachydanio rerio
	EC0 (waterflea)	6,25 mg/l		Daphnia magna
	Log P(ow)	4,3000		
	BCF	274		i
Benzyl benzoate	LC0 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	LC100 (fish)	2,84 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic	94 %	OECD 301 F	
	biodegradation (%)			
	LC50 (fish) - estimate	> 1 mg/l		
	Log P(ow)	3,97		
	BCF	24		
d-Limonene	NOEC (waterflea) -	0,15 mg/l.d		Daphnia magna
	chronic			
	Ultimate aerobic	> 92 %		
	biodegradation (%)			
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	Log P(ow)	4,38		_

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

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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:

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.

R41 Risk of serious damage to eyes.

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R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic 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. H226 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.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.
 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.

History

Date of first issue : 11-02-2014

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