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 CITRUS MANGO AERO-43

Product code : 1254880

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

Application : Professional use. (SU22). Airfreshener. (PC3).

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@vectairsystems.com
Website : http://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

CLP classification : Aerosols, categor

(1272/2008/EC)

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

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

Human health hazards

: Causes serious eye irritation. May cause drowsiness or dizziness. 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 °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 (1272/2008/EC):

Hazard pictograms





Signal word : Danger

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

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H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H229 Pressurised container: May burst if heated.
 H412 Harmful to aquatic life with long lasting effects.

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.

P261 spray Avoid breathing spray.

P403 Store in a well-ventilated place.

Additional labelling

* Contains d-Limonene; Citral. May produce an allergic reaction.

: Contains: Propan-2-ol

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:

Substand	ce name	Concentration (w/w) (%)	CAS nr.	EC number	REACH nr.	OEL
Isobutane	e Flam. Gas 1; Press. Gas H220; H280	50 - 75	75-28-5	200-857-2	01-2119485395-27	#
Ethanol	Flam. Liq. 2; Eye Irrit. 2 H225; H319	10 - < 20	64-17-5	200-578-6	01-2119457610-43	#
Propane	Flam. Gas 1; Press. Gas H220; H280	10 - < 20	74-98-6	200-827-9	01-2119486944-21	#
Propan-2-	-ol Flam. Liq. 2; Eye Irrit. 2; STOT SE 3 H225; H319; H336	5 - < 10	67-63-0	200-661-7	01-2119457558-25	#
Propane-	1,2-diol 	1 - < 5	57-55-6	200-338-0	01-2119456809-23	#
Butane	Flam. Gas 1; Press. Gas H220: H280	1 - < 5	106-97-8	203-448-7	01-2119474691-32	#
d-Limone	ne Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; H226; H304; H315; H317; H410	0,1 - < 1 Asp. Tox. 1; Aqua	5989-27-5 tic Acute 1; Aq	227-813-5 uatic Chronic 1	01-2119529223-47	#
Citral		0,1 - < 1	5392-40-5	226-394-6	01-2119462829-23	

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Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1 H319; H315; H317					
Benzyl benzoate Acute Tox. 4; Aquatic chronic 2 H302; H411	0,1 - < 1	120-51-4	204-402-9		
Benzyl alcohol Acute Tox. 4; Eye Irrit. 2 H332; H302; H319	0,1 - < 1	100-51-6	202-859-9	01-2119492630-38	#
Alpha,alpha-dimethylphenylethyl butyrate Aquatic Chronic 2 H411	< 0,1	10094-34-5	233-221-8		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- hexamethylindeno(5,6-c)pyran Aquatic Acute 1; Aquatic Chronic 1 H400; H410	< 0,1	1222-05-5	214-946-9	01-2119488227-29	

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

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. 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

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.

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Hazardous thermal decomposition products

: Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Personal precautions

: 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

: 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: For guidance on selection of personal protective equipment see section 8. For guidance on

disposal of spilled material see section 13.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool (< 35°), 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

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Occupational exposure limits

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

Occupational 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	+
Propane-1,2-diol	GB	474	-	Total Vapour and Particulates
Propane-1,2-diol		474		MAC UK: Total Vapour and Particulates
Butane	GB	1450	1810	}
Butane		1450	1810	
d-Limonene		110	-	MAC: DE, CH, NL
Benzyl alcohol		5		

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-to	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	
Propane-1,2-diol	Inhalation	İ		10 mg/m3	168 mg/m3	
d-Limonene	Inhalation	İ			33,3 mg/m3	
Citral	Dermal				1,7 mg/kg bw/day	
	Inhalation				9 mg/m3	
Benzyl alcohol	Dermal		47 mg/kg bw		9,5 mg/kg bw/day	
,	Inhalation		450 mg/m3		90 mg/m3	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-	Dermal				28,85 mg/kg bw/day	
hexamethylindeno(5,6-c)pyran						
	Inhalation				5,29 mg/m3	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-t	DNEL, short-term		DNEL, long-term	
	exposure					
	,	Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal Inhalation Oral	950 mg/m3			206 mg/kg bw/day 114 mg/m3 87 mg/kg bw/day	
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m3 26 mg/kg bw/day	
Propane-1,2-diol	Inhalation			10 mg/m3	50 mg/m3	
d-Limonene	Inhalation Oral				8,33 mg/m3 4,76 mg/kg bw/day	
Citral	Dermal Inhalation Oral				1 mg/kg bw/day 2,7 mg/m3 0,6 mg/kg bw/day	
Benzyl alcohol	Dermal Inhalation Oral		28,5 mg/kg bw 40,55 mg/m3 25 mg/kg bw		5,7 mg/kg bw/day 8,11 mg/m3 5 mg/kg bw/day	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- hexamethylindeno(5,6-c)pyran	Dermal				14,43 mg/kg bw/day	

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	Inhalation	Ī	İ	1,3 mg/m3
	Oral			0,75 mg/kg bw/day
Due diete due effect en entretier (DA				1, 0,0
Predicted no-effect concentration (PN		Track water	Marina water	
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
Propane-1,2-diol	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water	07 2 mg/ng	07,2 mg/kg	183 mg/l
	STP			20000 mg/l
	Soil			50 mg/kg
	Oral			1133 mg/kg food
d Limonopo	Water	0,0054 mg/l	0,0005 mg/l	i 133 ilig/kg 1000
d-Limonene	Sediment			
	STP	1,32 mg/kg	0,13 mg/kg	4.0 //
				1,8 mg/l
	Soil			0,262 mg/kg
L., .	Oral			3,33 mg/kg food
Citral	Water	0,0067 mg/l	0,0006 mg/l	
	Sediment	0,125 mg/kg	0,0125 mg/kg	
	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
	Soil			0,0209 mg/kg
Benzyl alcohol	Water	1 mg/l	0,1 mg/l	
	Sediment	5,27 mg/kg	0,527 mg/kg	
	Intermittent water			2,3 mg/l
	STP			39 mg/l
	Soil			0,456 mg/kg
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- hexamethylindeno(5,6-c)pyran	Water	0,0044 mg/l	0,0004 mg/l	
	Sediment	2 mg/kg	0,394 mg/kg	
	Intermittent water		1,11	0,047 mg/l
	STP			1 mg/l
	Soil			0,31 mg/kg
	Oral			3,3 mg/kg food
	Olal	i i	I	p,o mg/kg 1000

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.

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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.

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.

рΗ 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.

Not applicable. Auto ignition temperature 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 (%): 1,3 (Butane)

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) (air = 1): > 1

Relative density (20°C) : 0.617 a/ml

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

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

: No other hazardous reactions known. Reactivity

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.

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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: 2 %. 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: > 872 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	OECD 404	Rabbit
	LD50 (dermal)	15800 mg/kg bw		Rabbit
	NOAEL (inhalation)	23000 mg/m3		Rat
	NOAEL (oral)	1730 mg/kg bw/d	OECD 408	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)	117000 mg/m3	OECD 403	Rat

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I	Eye irritation	Irritant	OECD 405	Rabbit
	1 -	> 4400 mg/kg bw/d	0202 100	Mouse
	oral)	i roo mg/kg bw/a		louec
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity,	13 mg/m3		
	inh.)	l'a mg.ma		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d		Rat
l Topan 2 of	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
	1 -	407 mg/kg bw/d	0200400	Rat
		400 mg/kg bw/d		Rat
	oral)	400 mg/kg bw/d		Rai
	•	Not carainagania	OF CD 446	Det
		Not carcinogenic	OECD 416	Rat
	oral) Skin sensitisation	Not concitizing	OECD 406	Cuinos pia
		Not sensitizing Negative	OECD 400 OECD 471	Guinea pig
	Mutagenicity	•		Det
	NOAEL (inhalation)	12500 mg/m3	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity,	12500 mg/m3		Mouse
	inh.)	Not senatovia	OF OD 470	
dlimanana	Genotoxicity - in vitro	Not genotoxic	OECD 476	
d-Limonene	NOEL (carcinogenicity) - estimate	Not carcinogenic		
		> 75 mg/kg bw/d	OECD 451	Rat
	1	75 mg/kg bw/d	0200431	Nat
	oral) LC50 (inhalation) -	> 5000 mg/m3		
	estimate	2 5000 mg/ms		[
	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 403	Rabbit
	Skin sensitisation	10075 ug/cm2	OECD 471 OECD 429	Mouse
	NOAEL (development,	600 mg/kg bw/d	0000 429	Rat
	oral)	boo mg/kg bw/d		Rat
	Skin irritation	 Irritant		
	NOAEL (oral)	30 mg/kg bw/d		Rat
	NOEL (oral)	5 mg/kg bw/d		Rat
	LD50 (dermal)			Rabbit
	. ,	> 2000 mg/kg bw		1
	LD50 (oral)	4400 mg/kg bw Not genotoxic	Ī	Rat
Citrol	Genotoxicity - in vitro	> 1000 mg/kg bw/d	OECD 424	Rat
Citral	NOAEL (fertility, oral)		OECD 421 OECD 474	Mouse
	Genotoxicity - in vivo	Negative		Rabbit
	Eye irritation	Slightly irritant	OECD 405	1
	Skin irritation	Moderately irritant		Rabbit
	Skin irritation	Irritant	OF OD 400	Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental	423 Mg/M3		Rat
	toxicity, inh.)	100 ma/ka bu/d	OECD 453	 Pot
	NOEL (carcinogenicity,	r 100 mg/kg bw/d	OECD 453	Rat
	oral) Mutagenicity	Negative	OECD 471	
	LD50 (oral)	4960 mg/kg bw	OEOD 47 1	Rat
	Genotoxicity - in vitro	Not genotoxic		ı vat
	NOAEL (oral)	833 mg/kg bw/d	L	Rat
ı	ן יטי ובב (טימו)	poo mg/ng bw/u	1	l. 100

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LD50 (dermal)	2250 mg/kg bw	 	Rabbit
NOAEL (development,	200 mg/kg bw/d	OECD 421	Rat
oral)			

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): 107 mg/l. Calculated EC50 (waterflea): 85

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

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : 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
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	> 92 %		
	biodegradation (%)			
	NOEC (waterflea) -	0,15 mg/l.d		Daphnia magna
	chronic			
	Log P(ow)	4,38		
	BCF	683		
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		
Alpha,alpha-dimethylphenylethyl	Log P(ow)	3,99		
butyrate				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- hexamethylindeno(5,6-c)pyran	LC50 (fish)	1,36 mg/l	OECD 204	Lepomis macrochirus
	EC50 (waterflea)	0,47 mg/l		
	NOEC (waterflea) -	0,111 mg/l.d	OECD 202	Daphnia magna
	chronic			
	NOEC (fish)	0,068 mg/l.d	OECD 210	Pimephales promelas
	IC50 (algea)	> 0,85 mg/l	OECD 201	Pseudokirchnerella subcapitata

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Ultimate aerobic biodegradation (%)	2 %	OECD 301 B	
-	5,9		
-	1584		

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.

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

Local legislation

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

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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 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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic 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. Flam. Liq. 3 : Flammable liquid, hazard category 3.

Acute Tox. 4 : Acute toxicity, category 4.

Skin Irrit. 2 : Skin irritation, category 2.

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.

Asp. Tox. 1 : Aspiration hazard, category 1.

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

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

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

ATE Acute Toxicity Estimate
BCF Bioconcentration factor
DNEL Derived no-effect level

ECETOC TRA European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment

EU European Union

EUSES European Union System for the Evaluation of Substances

IBC code Intermediate Bulk Container

LD50 LC50 Lethal Dose/Concentration for 50% of a population

NOAEL No Observed (Adverse) Effect Level
NOEC No observed effect concentration
OEL Occupational exposure limit

PBT Persistent, Bioaccumulative and Toxic

PC Chemical product category
PNEC Predicted no-effect concentration

STP Sewage Treatment Plant

SU Sector of Use

SVHC Substance of very high concern

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

vPvB Very Persistent and Very Bioaccumulative

Number format : "," used as decimal separator.

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