

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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

1.1. Product identifier

Product name : VECTAIR AIROMA CITRUS MANGO
Product code : 1254880

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

Application : Professional use. (SU22). Air care products (PC3). Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Vectair System LTD
Unit 3, Trident Centre, Armstrong Road
RG248NU BASINGSTOKE, HAMPSHIRE, Great Britain
Telephone : +44 1256 319500
Fax : +44 1256 319520
E-mail : emea.info@vectairsystems.co.uk
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 (in the UK and Ireland for healthcare professionals only):

National Poisons Information Service +44-344 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

CLP classification : Aerosols, category 1. Eye irritation, category 2. Specific target organ toxicity after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 3.

Remarks : 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).

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases :

H222	Extremely flammable aerosol.
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.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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 Linalool; Citral; Limonene; Eucalyptol. May produce an allergic reaction.
: Contains: Propan-2-ol

2.3. Other hazards

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 : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Harmful to aquatic life with long lasting effects.
Other information : Keep out of 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.

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	REACH nr.	OEL
Butane Flam. Gas 1; Press. Gas H220; H280	25 - 50	106-97-8	203-448-7	01-2119474691-32	#
Propane Flam. Gas 1; Press. Gas H220; H280	10 - < 20	74-98-6	200-827-9	01-2119486944-21	#
Ethanol Flam. Liq. 2; Eye Irrit. 2 H225; H319	10 - < 20	64-17-5	200-578-6	01-2119457610-43	#
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	#
Isobutane Flam. Gas 1; Press. Gas H220; H280	1 - < 5	75-28-5	200-857-2	01-2119485395-27	#
Limonene Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H226; H304; H315; H317; H410	0,1 - < 1	5989-27-5	227-813-5	01-2119529223-47	#

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Alkanes, C11-15-iso- Asp. Tox. 1 H304; EUH066	0,1 - < 1	90622-58-5	292-460-6		#
Citral Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1 H319; H315; H317	0,1 - < 1	5392-40-5	226-394-6	01-2119462829-23	#
Benzyl benzoate Acute Tox. 4; Aquatic chronic 2; Aquatic acute 1 H302; H400; H411	0,1 - < 1	120-51-4	204-402-9	01-2119976371-33	
Benzyl alcohol Acute Tox. 4; Eye Irrit. 2 H332; H302; H319	0,1 - < 1	100-51-6	202-859-9	01-2119492630-38	#
Linalool Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B H315; H319; H317	0,1 - < 1	78-70-6	201-134-4	01-2119474016-42	
Eucalyptol Flam. Liq. 3; Skin Sens. 1B H226; H317	< 0,1	470-82-6	207-431-5	01-2119967772-24	

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 FIREFIGHTING 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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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

Special protective equipment for fire-fighters : 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. Waste product should not be allowed to contaminate soil or water.

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. 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. 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.

Directive 2012/18/EU : P3a - Flammable aerosols

Qualifying quantity (tonnes) : 150 (net)

- lower-tier

Qualifying quantity (tonnes) : 500 (net)

- upper-tier

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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.

Occupational exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Butane	GB	1450	1810	-
Butane		300	900	MAC RU
Propane		1800	-	-
Ethanol	GB	1920	-	-
Ethanol		260	1900	Mac: NL
Propan-2-ol	GB	999	1250	-
Propane-1,2-diol	GB	474	-	Total Vapour and Particulates
Propane-1,2-diol		79	117	OEL: NO
Isobutane		1900	2400	-
Limonene		110	-	MAC: DE, CH, NL
Alkanes, C11-15-iso-		1200	-	Exxon
Citral		27	54	OEL: Poland
Benzyl alcohol		5	-	-

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Dermal				343 mg/kg bw/day
Propan-2-ol	Inhalation	1900 mg/m ³			950 mg/m ³
	Dermal				888 mg/kg bw/day
Propane-1,2-diol	Inhalation			10 mg/m ³	500 mg/m ³
	Dermal				168 mg/m ³
Limonene	Inhalation				33,3 mg/m ³
Citral	Dermal				1,7 mg/kg bw/day
	Inhalation				9 mg/m ³
Benzyl benzoate	Dermal				2,6 mg/kg bw/day
	Inhalation	102 mg/m ³			5,1 mg/m ³
Benzyl alcohol	Dermal		40 mg/kg bw		8 mg/kg bw/day
	Inhalation		110 mg/m ³		22 mg/m ³
Linalool	Dermal		5 mg/kg bw		2,5 mg/kg bw/day
	Inhalation		16,5 mg/m ³		2,8 mg/m ³
Eucalyptol	Dermal				2 mg/kg bw/day
	Inhalation				7,05 mg/m ³

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Dermal				206 mg/kg bw/day
	Inhalation	950 mg/m ³			114 mg/m ³
Propan-2-ol	Oral				87 mg/kg bw/day
	Dermal				319 mg/kg bw/day

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Propane-1,2-diol	Inhalation				89 mg/m3
	Oral				26 mg/kg bw/day
Limonene	Inhalation			10 mg/m3	50 mg/m3
	Inhalation				8,33 mg/m3
Citral	Oral				4,76 mg/kg bw/day
	Dermal				1 mg/kg bw/day
Benzyl benzoate	Inhalation				2,7 mg/m3
	Oral				0,6 mg/kg bw/day
Benzyl alcohol	Dermal				1,3 mg/kg bw/day
	Inhalation	25 mg/m3			1,25 mg/m3
Linalool	Oral		78 mg/kg bw		0,4 mg/kg bw/day
	Dermal		20 mg/kg bw		4 mg/kg bw/day
Eucalyptol	Inhalation		27 mg/m3		5,4 mg/m3
	Oral		20 mg/kg bw		4 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
Eucalyptol	Oral		1,2 mg/kg bw		0,2 mg/kg bw/day
	Dermal				1 mg/kg bw/day
Eucalyptol	Inhalation				1,74 mg/m3
	Oral				600 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
Propan-2-ol	Oral			0,72 mg/kg food
	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
Propane-1,2-diol	Soil			28 mg/kg
	Oral			160 mg/kg food
	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water			183 mg/l
Limonene	STP			20000 mg/l
	Soil			50 mg/kg
	Oral			1133 mg/kg food
	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
Citral	STP			1,8 mg/l
	Soil			0,262 mg/kg
	Oral			3,33 mg/kg food
	Water	0,0067 mg/l	0,0006 mg/l	
	Sediment	0,125 mg/kg	0,0125 mg/kg	
Benzyl alcohol	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
	Soil			0,0209 mg/kg
	Water	1 mg/l	0,1 mg/l	
	Sediment	5,27 mg/kg	0,527 mg/kg	
Linalool	Intermittent water			2,3 mg/l
	STP			39 mg/l
	Soil			0,456 mg/kg
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Eucalyptol	Intermittent water			2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
	Water	0,057 mg/l	0,0057 mg/l	
	Sediment	1,425 mg/kg	0,1425 mg/kg	
	Intermittent water			0,57 mg/l
	STP			10 mg/l
	Soil			0,25 mg/kg
	Oral			133 mg/kg food

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. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: butyl. Indication of permeation breakthrough time: not known.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: butyl. ± 0,5 mm. Indication of permeation breakthrough time: not known.
- Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.
- Thermal hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.
- Environmental exposure controls : Avoid release of product into surface- and/or ground water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

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 (n-octanol/water) : Not known.
- 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 (%): 1,3 (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.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Viscosity (40°C) : Not relevant. The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C) : 310000 Pa
Vapour density (20°C) : > 1 (air = 1)
Relative density (20°C) : 0.617 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 products : Not known.

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: < 1 %. 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 : Not expected to be mutagenic. 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. Prolonged contact may dry out and defat the skin. Not classified - based on available data, the classification criteria are not met.

Sensitisation : May produce an allergic reaction.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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 expected to be mutagenic. 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	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	Genotoxicity - in vitro	Not genotoxic	OECD 476		
	NOEL (carcinogenicity, inh.)	13 mg/m3			
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse	
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse	
	Eye irritation	Irritant	OECD 405	Rabbit	
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat	
	NOAEL (development, oral)	6400 mg/kg bw/d			
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig	
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat	
	NOAEL (inhalation)	23000 mg/m3		Rat	
	LD50 (dermal)	15800 mg/kg bw	-----	Rabbit	
	NOAEL (oral)	1730 mg/kg bw/d	OECD 408	Rat	
	LC50 (inhalation)	117000 mg/m3	OECD 403	Rat	
	Propan-2-ol	LD50 (oral)	5840 mg/kg bw	OECD 401	Rat
		LC50 (inhalation)	> 25062 mg/m3	OECD 403	Rat
LD50 (dermal)		12800 mg/kg bw	OECD 402	Rabbit	
NOAEL (oral)		870 mg/kg bw/d	-----	Rat	
Genotoxicity - in vitro		Not genotoxic	OECD 476		
NOEL (carcinogenicity, inh.)		12500 mg/m3		Mouse	
Genotoxicity - in vivo		Not genotoxic	OECD 474	Mouse	
NOAEL (inhalation)		12500 mg/m3	OECD 451	Rat	
Mutagenicity		Negative	OECD 471		
Skin sensitisation		Not sensitizing	OECD 406	Guinea pig	
NOEL (carcinogenicity, oral)		Not carcinogenic	OECD 416	Rat	
NOAEL (development, oral)		400 mg/kg bw/d		Rat	
NOAEL (fertility, oral)		407 mg/kg bw/d		Rat	
Eye irritation		Irritant	OECD 405	Rabbit	
Skin irritation		Slightly irritant	OECD 404	Rabbit	
Limonene		NOEL (carcinogenicity) - estimate	Not carcinogenic	-----	-----
		NOEL (carcinogenicity, oral)	> 75 mg/kg bw/d	OECD 451	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	-----	

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Citral	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	10075 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant	-----	-----
	NOEL (oral)	5 mg/kg bw/d	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	4400 mg/kg bw	-----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
	Skin sensitisation	1414 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	200 mg/kg bw/d	OECD 421	Rat
	LD50 (dermal)	2250 mg/kg bw	-----	Rabbit
	NOAEL (oral)	833 mg/kg bw/d	-----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	LD50 (oral)	4960 mg/kg bw	-----	Rat
Mutagenicity	Negative	OECD 471		
NOEL (carcinogenicity, oral)	> 100 mg/kg bw/d	OECD 453	Rat	
NOAEL (developmental toxicity, inh.)	423 mg/m3	-----	Rat	
Skin irritation	Irritant		Human	
Skin irritation	Moderately irritant		Rabbit	
Eye irritation	Slightly irritant	OECD 405	Rabbit	
Genotoxicity - in vivo	Negative	OECD 474	Mouse	
NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat	
Skin irritation	Mildly irritant	-----	Human	
LD50 (oral)	2790 mg/kg bw	-----	Rat	
Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse	
Skin irritation	Irritant	OECD 404	Rabbit	
Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
Skin sensitisation	12650 ug/cm2	OECD 429	Mouse	
NOAEL (fertility, oral)	365 mg/kg bw/d	OECD 421	Rat	
NOAEL (development, oral)	365 mg/kg bw/d	OECD 421	Rat	
LD50 (dermal)	5610 mg/kg bw	OECD 402	Rabbit	
LC50 (inhalation)	> 3200 mg/m3	-----	Mouse	
NOAEL (oral)	117 mg/kg bw/d	OECD 407	Rat	
NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat	
Eye irritation	Irritant	OECD 405	Rabbit	
LD50 (oral)	2480 mg/kg bw	-----	Rat	
NOAEL (oral)	1200 mg/kg bw/d		Rat	
Genotoxicity - in vitro	Not genotoxic			
Mutagenicity	Not mutagenic		Salmonella typhimurium	
Skin irritation	Non-irritant			
Skin sensitisation	Sensitizing.	OECD 429	Mouse	
LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	Rat	
LC50 (inhalation) - estimate	> 5000 mg/m3	-----	-----	
Linalool				
Eucalyptol				

SECTION 12 ECOLOGICAL INFORMATION

*

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 72 mg/l. Calculated EC50 (waterflea): 75 mg/l. Contains < 1 % 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 substances that are potentially bioaccumulating (Log Pow > 3).

12.4. Mobility in soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB assessment

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
Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,15 mg/l.d		Daphnia magna
	Ultimate aerobic biodegradation (%)	> 92 %		
	Log P(ow)	4,38		
	BCF	683		
	Benzyl benzoate	LC50 (fish)	0,29 mg/l	OECD 203
EC50 (waterflea)		3,09 mg/l	OECD 202	Daphnia magna
NOEC (waterflea) - chronic		0,258 mg/l.d		Daphnia magna
NOEC (waterflea) - acute		1,73 mg/l	OECD 202	Daphnia magna
LC0 (fish)		1,9 mg/l	OECD 203	Brachydanio rerio
LC100 (fish)		2,84 mg/l	OECD 203	Brachydanio rerio
Ultimate aerobic biodegradation (%)		94 %	OECD 301 F	
Log P(ow)		3,97		
BCF		24		

VOC-content (EC) : 601 g/l

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.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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/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 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 830/2015 (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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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

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

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

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.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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.