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 MYSTIQUE
Product code : 1252247

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

Application : Professional use. (SU22). Air care products (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 : 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 (1272/2008/EC) : Aerosols, category 1. Eye irritation, category 2. Skin sensitization, category 1. 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.
H317	May cause an allergic skin reaction.
H229	Pressurised container: May burst if heated.
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.
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.

Additional labelling
: Contains: Butylphenyl methylpropional; Coumarin; Linalool; Hexyl cinnamal; Propan-2-ol; Heliotropine; Geraniol; Limonene.
: 3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other information : 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.

2.3. Other hazards

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 : 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. Avoid contact with skin. Wear suitable gloves. 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	#
Resin acids and Rosin acids, hydrogenated, Me esters	1 - < 5	8050-15-5	232-476-2		

	Aquatic Chronic 3 H412				
Hexyl cinnamal	0,1 - < 1	101-86-0	202-983-3	01-2119533092-50	
	Skin Sens. 1B; Aquatic Chronic 2; Aquatic Acute 1 H317; H400; H411				
Linalool	0,1 - < 1	78-70-6	201-134-4	01-2119474016-42	
	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B H315; H319; H317				
Coumarin	0,1 - < 1	91-64-5	202-086-7		
	Acute Tox. 4; Skin Sens. 1B; STOT RE 2 H302; H317; H373				
Butylphenyl methylpropional	0,1 - < 1	80-54-6	201-289-8	01-2119485965-18	
	Aquatic Chronic 2; Skin Irrit. 2; Skin Sens. 1; Acute Tox. 4; Repr. 2 H302; H315; H317; H411; H361f				
Patchouli oil	0,1 - < 1	84238-39-1	282-493-4		
	Aquatic Chronic 2; Asp. Tox. 1 H304; H411				
Benzyl benzoate	0,1 - < 1	120-51-4	204-402-9	01-2119976371-33	
	Acute Tox. 4; Aquatic chronic 2; Aquatic acute 1 H302; H400; H411				
Limonene	0,1 - < 1	5989-27-5	227-813-5	01-2119529223-47	#
	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1 H226; H304; H315; H317; H410				
Geraniol	< 0,1	106-24-1	203-377-1	01-2119552430-49	
	Skin Sens. 1; Eye Dam. 1; Skin Irrit. 2 H317; H318; H315				
Heliotropine	< 0,1	120-57-0	204-409-7	01-2119983608-21	
	Skin Sens. 1 H317				

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 cause dry skin. May cause redness and irritation, sensitisation. May produce an allergic reaction.
- 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 (CO_2). 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

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) - lower-tier : 150 (net)

Qualifying quantity (tonnes) - upper-tier : 500 (net)

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/m3)	STEL 15 min (mg/m3)	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

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
	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			10 mg/m3	168 mg/m3
Hexyl cinnamal	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day
	Inhalation	6,28 mg/m3			0,078 mg/m3
Linalool	Dermal		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
Butylphenyl methylpropional	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
Benzyl benzoate	Dermal				2,6 mg/kg bw/day
	Inhalation	102 mg/m3			5,1 mg/m3
Limonene	Inhalation				33,3 mg/m3
Geraniol	Dermal				12,5 mg/kg bw/day
	Inhalation				161,6 mg/m3
Heliotropine	Dermal				0,5 mg/kg bw/day
	Inhalation				3,5 mg/m3

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/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
Propane-1,2-diol	Inhalation			10 mg/m3	50 mg/m3
Hexyl cinnamal	Dermal	0,0787 mg/kg bw		0,0787 mg/kg bw/day	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
Butylphenyl methylpropional	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
Benzyl benzoate	Dermal				1,3 mg/kg bw/day
	Inhalation	25 mg/m3			1,25 mg/m3
	Oral		78 mg/kg bw		0,4 mg/kg bw/day
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
Heliotropine	Dermal				0,25 mg/kg bw/day
	Inhalation				0,87 mg/m3
	Oral				0,25 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
Propane-1,2-diol	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
Hexyl cinnamal	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
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	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
Butylphenyl methylpropional	Water	0,0020 mg/l	0,0002 mg/l	
	Sediment	0,0584 mg/kg	0,0058 mg/kg	
	Intermittent water			0,0204 mg/l
	STP			1,049 mg/l
	Soil			0,0463 mg/kg
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
Heliotropine	Water	0,0025 mg/l	0,00025 mg/l	
	Sediment	0,0119 mg/kg	0,0012 mg/kg	
	Intermittent water			0,025 mg/l
	STP			10 mg/l
	Soil			0,00084 mg/kg

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

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	:	Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. 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	:	Wear appropriate safety gloves in accordance with EN 374. 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.	
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)	:	0.637 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 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: 3 %. 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: 3 %. 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 : Not expected to be mutagenic. 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 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
Hexyl cinnamal	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
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Eye irritation	Non-irritant		Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat
Linalool	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
Coumarin	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) - estimate	Not carcinogenic		
Butylphenyl methylpropional	Mutagenicity	Negative	OECD 471	-----
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	LD50 (oral)	1390 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	-----	Rabbit
	NOAEL (oral)	25 mg/kg bw/d	-----	Rat
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	NOAEL (fertility, oral)	25 mg/kg bw/d		Rat
	NOAEL (development, oral)	4 mg/kg bw/d	OECD 414	Rat
Limonene	NOEL (carcinogenicity) - estimate	Not carcinogenic	-----	-----
	NOEL (carcinogenicity, oral)	> 75 mg/kg bw/d	OECD 451	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	-----
	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
Geraniol	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	LD50 (oral)	2100 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit

	NOAEL (oral)	1000 mg/kg bw/d	-----	Rat
	Skin irritation	Irritant	-----	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	Genotoxicity - in vivo	Not genotoxic		Mouse
	NOEL (oral)	> 550 mg/kg bw/d	-----	Rat
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
Heliotropine	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	LD50 (oral)	2700 mg/kg bw	OECD 401	Rat
	NOAEL (oral)	500 mg/kg bw/d	OECD 408	Rat
	NOEL (carcinogenicity, oral)	250 mg/kg bw/d	OECD 453	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	Chinese Hamster
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	Skin irritation	Slightly irritant	-----	Guinea pig
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	250 mg/kg bw/d	OECD 478	Rat
	Skin sensitisation	Sensitizing.		Guinea pig
	NOAEL (development, oral)	250 mg/kg bw/d	OECD 421	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium

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): 68 mg/l. Calculated EC50 (waterflea): 172 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
Resin acids and Rosin acids, hydrogenated, Me esters	LC50 (fish)	> 1000 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	27 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	17.7 %	OECD 301 B	
Hexyl cinnamal	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas

	IC50 (algea)	> 0,32 mg/l	OECD 201	Desmodesmus subspicatus
	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
	Ultimate aerobic biodegradation (%)	97 %	OECD 301 F	
	Log P(ow)	5,3		
Butylphenyl methylpropional	LC50 (fish)	2,2 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	10,7 mg/l		Daphnia magna
	EC0 (waterflea)	6,25 mg/l		Daphnia magna
	EC100 (waterflea)	25 mg/l		Daphnia magna
	Ultimate aerobic biodegradation (%)	68 %	OECD 301 F	
	Log P(ow)	4,3000		
	BCF	274		
Benzyl benzoate	LC50 (fish)	0,29 mg/l	OECD 203	Brachydanio rerio
	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		
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		

VOC-content (EC) : 581 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.

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

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.
H314	Causes severe skin burns and eye damage.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

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 Corr. 1B	:	Skin corrosive, category 1B.
Skin Irrit. 2	:	Skin irritation, category 2.
Eye Dam. 1	:	Serious eye damage, category 1.
Eye Irrit. 2	:	Eye irritation, category 2.
Skin Sens. 1	:	Skin sensitization, category 1.
Repr. 2	:	Reproductive toxicity, category 2.
STOT SE 3	:	Specific target organ toxicity after single exposure, category 3.
STOT RE 2	:	Specific target organ toxicity — repeated exposure, category 2.
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
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.