

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 BABYFACE BAERO-05
Product code : 1252249

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

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2.1. Classification of the substance or mixture

CLP classification : 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.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

P261 spray Avoid breathing spray.

Additional labelling

: Contains: Citronellol; Alpha-isomethyl ionone; Coumarin; Heliotropine; Propan-2-ol; Carvone; Geranyl acetate; Benzyl salicylate; Geraniol; Methyl cinnamate; Linalool; Limonene.
: 4 % 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

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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	#
Benzyl acetate Aquatic Chronic 3	0,1 - < 1	140-11-4	205-399-7	01-2119638272-42	#

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

H412					
1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl) cyclohexan-1-ol	0,1 - < 1	68877-29-2	272-556-4		
Skin Irrit. 2; Aquatic Chronic 2 H315; H411					
Heliotropine	0,1 - < 1	120-57-0	204-409-7	01-2119983608-21	
Skin Sens. 1 H317					
Coumarin	0,1 - < 1	91-64-5	202-086-7		
Acute Tox. 4; Skin Sens. 1B; STOT RE 2 H302; H317; H373					
Alpha-isomethyl ionone	0,1 - < 1	127-51-5	204-846-3		
Skin Sens. 1; Aquatic Chronic 2; Skin Irrit. 2 H317; H411; H315					
Citronellol	0,1 - < 1	106-22-9	203-375-0	01-2119453995-23	
Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B H319; H317; H315					
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					
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					
Methyl cinnamate	0,1 - < 1	103-26-4	203-093-8		
Skin Sens. 1B H317					
Pentyl salicylate	0,1 - < 1	2050-08-0	218-080-2	01-2119969444-27	
Aquatic Chronic 1; Acute Tox. 4; Aquatic Acute 1 H400; H410; H302					
Geraniol	0,1 - < 1	106-24-1	203-377-1	01-2119552430-49	
Skin Sens. 1; Eye Dam. 1; Skin Irrit. 2 H317; H318; H315					
Benzyl salicylate	0,1 - < 1	118-58-1	204-262-9	01-2119969442-31	
Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 3 H317; H319; H412					
Geranyl acetate	< 0,1	105-87-3	203-341-5	01-2119973480-35	
Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3 H315; H317; H412					
Carvone	< 0,1	99-49-0	202-759-5		
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

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4.1. Description of first aid measures

First aid measures

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

- 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 redness and irritation, sensitisation. 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

- 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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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

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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

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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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	-
Benzyl acetate		5	-	-
Limonene		110	-	MAC: DE, CH, NL

Derived no-effect level (DNEL) for workers:

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Ethanol	Dermal	1900 mg/m3		10 mg/m3	343 mg/kg bw/day
Propan-2-ol	Inhalation				950 mg/m3
Propane-1,2-diol	Dermal	12,5 mg/kg bw	43,8 mg/m3		888 mg/kg bw/day
Benzyl acetate	Inhalation				500 mg/m3
Heliotropine	Dermal	5 mg/kg bw	16,5 mg/m3		168 mg/m3
Coumarin	Inhalation				6,25 mg/kg bw/day
Citronellol	Dermal	161,6 mg/m3			21,9 mg/m3
Limonene	Inhalation				0,5 mg/kg bw/day
Linalool	Dermal	33,3 mg/m3			3,5 mg/m3
Geraniol	Inhalation				0,79 mg/kg bw/day
Benzyl salicylate	Dermal	2,5 mg/kg bw/day			5,52 mg/m3
Geranyl acetate	Inhalation				2,8 mg/m3
	Dermal	12,5 mg/kg bw/day			45,8 mg/kg bw/day
	Inhalation				161,6 mg/m3
	Dermal	161,6 mg/m3			161,6 mg/m3
	Inhalation				33,3 mg/m3
	Dermal	2,5 mg/kg bw/day			2,5 mg/kg bw/day
	Inhalation				2,8 mg/m3
	Dermal	12,5 mg/kg bw/day			12,5 mg/kg bw/day
	Inhalation				161,6 mg/m3
	Dermal	0,9 mg/kg bw/day			0,9 mg/kg bw/day
	Inhalation				3,17 mg/m3
	Dermal	35,5 mg/kg bw/day			35,5 mg/kg bw/day
	Inhalation				62,59 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	950 mg/m3		10 mg/m3	206 mg/kg bw/day
Propan-2-ol	Inhalation				114 mg/m3
Propane-1,2-diol	Oral	6,25 mg/kg bw	11 mg/m3	10 mg/m3	87 mg/kg bw/day
Benzyl acetate	Dermal				319 mg/kg bw/day
Heliotropine	Inhalation	6,25 mg/kg bw			89 mg/m3
Coumarin	Oral				26 mg/kg bw/day
Citronellol	Dermal	13,75 mg/kg bw/day			50 mg/m3
Limonene	Inhalation				3,125 mg/kg bw/day
Linalool	Oral	4,76 mg/kg bw/day			5,5 mg/m3
Geraniol	Dermal				3,125 mg/kg bw/day
	Inhalation	13,75 mg/kg bw/day			0,25 mg/kg bw/day
	Oral				0,87 mg/m3
	Dermal	8,33 mg/m3			0,25 mg/kg bw/day
	Inhalation				0,39 mg/kg bw/day
	Oral	4,76 mg/kg bw/day			0,39 mg/kg bw/day
	Dermal				27,5 mg/kg bw/day
	Inhalation	4,76 mg/kg bw/day			47,8 mg/m3
	Oral				13,75 mg/kg bw/day
	Dermal	1,25 mg/kg bw/day			13,75 mg/kg bw/day
	Inhalation				0,7 mg/m3
	Oral	0,2 mg/kg bw/day			4,76 mg/kg bw/day
	Dermal				7,5 mg/kg bw/day
	Inhalation	47,8 mg/m3			47,8 mg/m3
	Oral				13,75 mg/kg bw/day

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Benzyl salicylate	Dermal			0,45 mg/kg bw/day
	Inhalation			0,78 mg/m3
	Oral			0,45 mg/kg bw/day
Geranyl acetate	Dermal			17,75 mg/kg bw/day
	Inhalation			15,4 mg/m3
	Oral			8,9 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
Benzyl acetate	Water	0,004 mg/l	0,0004 mg/l	
	Sediment	0,114 mg/kg	0,0114 mg/kg	
	Intermittent water			0,04 mg/l
	STP			8,55 mg/l
	Soil			0,0205 mg/kg
	Oral			
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
	Oral			
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
Citronellol	Water	0,0024 mg/l	0,00024 mg/l	
	Sediment	0,0256 mg/kg	0,00256 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0,00371 mg/kg
	Oral			
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
	Oral			
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
	Soil			

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Geraniol	Oral			7,8 mg/kg food
	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
	Intermittent water			0,108 mg/l
Benzyl salicylate	STP			0,7 mg/l
	Soil			0,0167 mg/kg
	Water	0,00103 mg/l	0,000103 mg/l	
	Sediment	0,583 mg/kg	0,0583 mg/kg	
	Intermittent water			0,0103 mg/l
Geranyl acetate	STP			10 mg/l
	Soil			0,116 mg/kg
	Oral			80 mg/kg food
	Water	0,00372 mg/l	0,000372 mg/l	
	Sediment	0,442 mg/kg	0,442 mg/kg	
	Intermittent water			0,0372 mg/l
	STP			8 mg/l
	Soil			0,0859 mg/kg

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : 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

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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.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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)	: 0.651 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

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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: 4 %. 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. |

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

- 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: 2 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. 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: 2 %. 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
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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Heliotropine	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
	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
Coumarin	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	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		
Alpha-isomethyl ionone	Genotoxicity - in vitro	Not genotoxic	-----	-----
	Skin sensitisation	5450 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	-----
	NOAEL (oral)	> 3,55 mg/kg bw/d	-----	Rat
	NOAEL (fertility, oral)	> 3,55 mg/kg bw/d	-----	Rat
	NOAEL (development, oral)	30 mg/kg bw/d	-----	-----
	Genotoxicity - in vitro	Not genotoxic		
Citronellol	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw	-----	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		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

Linalool	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 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
	Geraniol	LD50 (dermal)	5610 mg/kg bw	OECD 402
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
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	
Benzyl salicylate		LC50 (inhalation) - estimate	> 5000 mg/m3	
	Mutagenicity	Negative	OECD 471	
	Eye irritation	Moderately irritant	-----	Rabbit
	Skin irritation	Non-irritant	-----	Rabbit
	Skin sensitisation	725 ug/cm2	OECD 429	Mouse
	LD50 (oral)	2227 mg/kg bw	-----	Rat
	NOAEL (oral) - estimate	360 mg/kg bw/d	Read across	Rat
	NOAEL (fertility) - estimate	180 mg/kg.d	Read across	Rat
	NOAEL (development) - estimate	360 mg/kg.d	Read across	Rat
	NOEL (carcinogenicity) - estimate	> 2000 mg/kg.d	Read across	Rat
Geranyl acetate	NOAEL (dermal) - estimate	1000 mg/kg bw/d	Read across	Mouse
	Skin irritation	Severely irritant		Rabbit

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

Carvone	LD50 (dermal)	> 5460 mg/kg bw		Rabbit
	LD50 (oral)	6330 mg/kg bw	----	Rat
	Mutagenicity	Negative	OECD 471	----
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	NOEL (carcinogenicity) - estimate	Not carcinogenic	----	Mouse
	Mutagenicity - estimate	Negative	----	----
	LD50 (oral)	> 2000 mg/kg bw	----	----
	LD50 (dermal)	> 4000 mg/kg bw	----	----
	LC50 (inhalation)	> 5660 mg/m3	----	Rat
	Skin irritation	Slightly irritant	----	Rabbit
	Eye irritation	Slightly irritant	----	Rabbit
	Skin sensitisation	Sensitizing.	----	Guinea pig

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): 88 mg/l. Calculated EC50 (waterflea): 91 mg/l. Contains 2 % 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
Benzyl acetate	LC50 (fish)	4 mg/l		Oryzias latipes
	EC50 (waterflea)	17 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	160 mg/l	OECD 201	Scenedesmus subspicatus
	NOEC (fish)	1,33 mg/l.d		Oryzias latipes
	Ultimate aerobic biodegradation (%)	100 %	OECD 301 B	
1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl cyclohexan-1-ol	Log P(ow)	1,96		
	Log P(ow)	5,64		
Alpha-isomethyl ionone	LC50 (fish)	10,9 mg/l	----	Oncorhynchus mykiss
	EC50 (waterflea) - estimate	3,04 mg/l	----	Daphnia magna
	Ultimate aerobic biodegradation (%)	61,8 %	OECD 301 B	
	Log P(ow)	4,6		

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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		
Pentyl salicylate	LC50 (fish)	1,34 mg/l		Brachydanio rerio
	EC50 (waterflea)	2,8 mg/l		Daphnia magna
	Ultimate aerobic biodegradation (%)	84 %		
	Log P(ow)	4,4000		
	BCF	55		
	Benzyl salicylate	LC50 (fish)	1,03 mg/l	OECD 203
EC50 (waterflea)		1,16 mg/l	OECD 202	Daphnia magna
IC50 (alga)		1,29 mg/l	OECD 201	Selenastrum capricornutum
NOEC (algae)		0,502 mg/l	OECD 201	Selenastrum capricornutum
Ultimate aerobic biodegradation (%)		93 %	OECD 301 F	
Log P(ow)		4,3		
Geranyl acetate	EC50 (waterflea)	14,1 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	3,72 mg/l	OECD 201	Desmodesmus subspicatus
	LC50 (fish) - estimate	68 mg/l	Read across	Leuciscus idus
	Ultimate aerobic biodegradation (%)	> 70 %		
	Log P(ow)	4,3		
	BCF	235		

VOC-content (EC) : 598 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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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.

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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.
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.
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

SAFETY DATA SHEET

According to Regulation (EU) No 830/2015

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.