



HUGH CRANE

— Cleaning Equipment Limited —

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Revision Date 20/01/2015

Print Date 13/10/2016

SAFETY DATA SHEET

AIROMA, CITRUS TINGLE

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

Product name: Airoma, Citrus Tingle
Product Code: BAERO-04; 1252123; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Sensitizing. Extremely flammable. Dangerous for the environment.

CLP classification (1272/2008/EC): Aerosols, category 1.

Human health hazards: Skin sensitization, category 1.
Skin irritation, category 2.
Eye irritation, category 2.
Specific target organ toxicity after single exposure, category 3.
Hazardous to the aquatic environment — Chronic category 3.
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. 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.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: Xi: Irritant F+: Extremely flammable



R- and S-phrases:

R12 Extremely flammable.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition — No smoking.
S23 Aerosol Do not breathe spray.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.
Additional labelling: Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:





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Signal word:**H- and P-phrases:**

Danger

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P280 gloves Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (99/45/EC and/or 1272/2008/EC)

Contains: d-Limonene.

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text:

Contains: Propan-2-ol ; Citral ; Citronellol ; Geraniol .

7 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other hazards**Other information:**

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). 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. Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS**Mixtures**

Substance	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Isobutane	25-50	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propane	10-<20	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propylene glycol	5-<10	57-55-6	200-338-0			01-2119456809-23			
d-Limonene	1 - <2.5	5989-27-5	227-813-5	Xi; N	10,38,43, 50/53	01-2119529223-47	Flam Liq 3 Skin Irrit 2 Skin Sens 1 Aquatic Acute 1 Aquatic Chronic 1	GHS02 GHS07 GHS09	H226 H315 H317 H410
p-Menth-1-en-8-ol	1-<5	98-88-8	202-680-6	Xi	36/38	01-2119980717-23	Skin Irrit 2 Eye Irrit 2	GHS07	H315 H319
Linalool	1-<5	78-70-6	201-134-4	Xi	38	01-2119474016-42	Skin Irrit 2	GHS07	H315 H319
Butane	0.1-<1	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden-6-yl acetate	0.1-<1	5413-60-5	226-501-6		52/53	01-2119934491-39	Aquatic Chronic 3		H412
Citral	0.1-<1	5392-40-5	226-394-6	Xi	38, 43	01-2119462829-23	Skin Irrit 2 Skin Sens 1	GHS07	H315 H317
Citronellol	0.1-<1	106-22-9	203-375-0	Xi; N	34,43 51/53	01-2119453995-23	Eye Irrit 2 Skin Irrit 2 Skin Sens 1B	GHS07	H319 H317 H315
Geranyl Acetate	0.1-<1	105-87-3	203-341-5	N	51/53	01-2119973480-35	Aquatic Chronic 2	GHS09	H411
Geraniol	<0.1	106-24-1	203-377-1	Xi	38,41,43	01-2119552430-49	Skin Sens 1 Eye Dam 1 Skin Irrit 2	GHS05 GHS07	H317 H318 H315
p-Cymene	<0.1	99-87-9	202-796-7	Xi; N	10, 51/53, 65	01-2119881770-31	Flam Liq 3 Asp Tox 1 Aquatic Chronic 2	GHS02 GHS08 GHS09	H226 H304 H411

Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.



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4. FIRST AID MEASURES

Description of first aid measures

Inhalation:	Not applicable under normal conditions of use. 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.

Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation:	No specific effects and/or symptoms are known.
Skin contact:	Irritant. 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.

Indication of any immediate medical attention and special treatment needed

Note to physicians:	None known.
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5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable:	Carbon dioxide (CO ₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable:	Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.
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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.

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.
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Reference to other sections

Reference to other sections:	See also section 8.
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7. HANDLING AND STORAGE

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.
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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.

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.

Specific end use(s)

Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m ³	2400 mg/m ³	
Ethanol	GB	1920 mg/m ³		
Ethanol		260 mg/m ³	1900 mg/m ³	Mac: NL
Propane		1800 mg/m ³		
Propan-2-ol	GB	999 mg/m ³	1250 mg/m ³	
Propylene glycol	GB	474 mg/m ³		Total Vapour and Particulates
Propylene glycol		474 mg/m ³		MAC UK: Total Vapour and Particulates
d-Limonene		110 mg/m ³		MAC: DE, CH, NL
Butane	GB	1450 mg/m ³	1810 mg/m ³	
Butane		1450 mg/m ³	1810 mg/m ³	

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 Inhalation	1900 mg/m ³			343 mg/kg bw/day 950 mg/m ³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m ³
Propylene glycol	Inhalation			10 mg/m ³	168 mg/m ³
d-Limonene	Inhalation				33,3 mg/m ³
Linalool	Dermal Inhalation		5 mg/kg bw/day 16,5 mg/m ³		2,5 mg/kg bw/day 2,8 mg/m ³
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden-6-yl acetate	Dermal Inhalation				0,849 mg/kg bw/day 0,9678 mg/m ³
Citral	Dermal Inhalation				1,7 mg/kg bw/day 9 mg/m ³
Citronellol	Dermal Inhalation				45,8 mg/kg bw/day 161,6 mg/m ³
Geraniol	Dermal Inhalation				12,5 mg/kg bw/day 161,6 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
d-Limonene	Inhalation Oral				8,33 mg/m ³ 4,76 mg/kg bw/day
Linalool	Dermal Inhalation Oral		2,5 mg/kg bw 4,1 mg/m ³ 1,2 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day 0,7 mg/m ³ 0,2 mg/kg bw/day
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden-6-yl acetate	Dermal Inhalation Oral				0,2093 mg/kg bw/day 0,2407 mg/m ³ 1698 mg/kg bw/day



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Chemical Name	Route of Exposure	DNEL Short Term		DNEL Long Term	
		Local Effect	Systemic Effect	Local Effect	Systemic Effect
Citral	Dermal Inhalation Oral				1 mg/kg bw/day 2,7 mg/m ³ 0,6 mg/kg bw/day
Citronellol	Dermal Inhalation Oral				27,5 mg/kg bw/day 47,8 mg/m ³ 13,75 mg/kg bw/day
Geraniol	Dermal Inhalation Oral				7,5 mg/kg bw/day 47,8 mg/m ³ 13,75 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2.9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
d-Limonene	Water Sediment STP Soil Oral	0,0054 mg/l 1,32 mg/kg	3,0005 mg/l 0,13 mg/kg	1,8 mg/l 0,232 mg/kg 3,33 mg/kg food
p-Menth-1-en-8-ol	Water Sediment STP Soil	0,068 mg/l 1,85 mg/kg	0,185 mg/kg	2,6 mg/l 0,329 mg/kg
Linalool	Water Sediment Intermittent Water STP Soil Oral	0,2 mg/l 2,22 mg/kg	0,02 mg/l 0,222 mg/kg	2 mg/l 10 mg/l 0,327 mg/kg 7,8 mg/kg food
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden-6-yl acetate	Water Sediment Intermittent Water STP Soil	0,15795 mg/l 1,95095 mg/kg	0,01579 mg/l 1,95095 mg/kg	0,15795 mg/l 2,45 mg/l 0,90322 mg/kg
Citral	Water Sediment Intermittent Water STP Soil	0,0067 mg/l 0,1125 mg/kg	0,0006 mg/l 0,0125 mg/kg	0,0678 mg/l 1,6 mg/l 0,0209 mg/kg
Citronellol	Water Sediment Intermittent Water STP Soil	0,0024 mg/l 0,00256 mg/kg	0,00024 mg/l 0,00256 mg/kg	0,024 mg/l 580 mg/l 0,00371 mg/kg
Geranyl Acetate	Water Sediment Intermittent Water STP Soil	0,00372 mg/l 0,442 mg/kg	0,00372 mg/l 0,442 mg/kg	0,0372 mg/l 8 mg/l 0,0859 mg/kg



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Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Geraniol	Water Sediment Intermittent Water STP Soil	0,0108 mg/l 0,115 mg/kg	0,0010 mg/l 0,0115 mg/l	0,108 mg/l 0,7 mg/l 0,0167 mg/kg

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: nitrile. Indication of permeation breakthrough time: 4 hours.

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: nitrile. ± 0,5 mm. Indication of permeation breakthrough time: 4 hours.

Eye protection:

Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

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 (%):	0,7 (d-Limonene)
Upper explosion limit in air (%):	19 Ethanol
Oxidising properties:	Not applicable. Does not contain oxidizing substances.
Decomposition temperature:	Not applicable.
Viscosity (20°C):	Not known.
Viscosity (40°C):	Not known.
Vapour pressure (20°C):	360000 Pa
Vapour density (20°C):	> 1 (air = 1)
Relative density (20°C):	0,634 g/ml
Evaporation rate:	Not known. (n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:	See sub-sections below.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No other hazardous reactions known.
Conditions to avoid:	Keep away from sources of ignition and sources of heat. See section 7.
Incompatible materials:	Not applicable.



Hazardous decomposition products: : Not known.

11. TOXICOLOGICAL INFORMATION

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: 7 %. 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, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Corrosion/irritation: May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.

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

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

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation: Irritant. May cause redness. Prolonged contact may dry out and defat the skin.

Sensitisation: May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation: Irritant.

Ingestion

Acute toxicity: Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1077 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation: Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity: Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity: Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	-----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	-----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh.)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	-----	Rat
	LD50 (oral)	4396 mg/kg bw	-----	Rat
	LD50 (dermal)	12800 mg/kg bw	-----	Rat
	LC50 (inhalation)	46600 mg/m ³	-----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit



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	NOAEL (fertility, oral) NOAEL (development, oral) NOEL (carcinogenicity, oral) Skin sensitisation Mutagenicity NOAEL (inhalation) Genotoxicity - in vivo NOEL (carcinogenicity, inh.) Genotoxicity - in vitro	407 mg/kg bw/d 400 mg/kg bw/d Not carcinogenic Not sensitizing Negative 12500 mg/m ³ Not genotoxic 12500 mg/m ³ Not genotoxic	OECD 416 OECD 406 OECD 471 OECD 451 OECD 474 OECD 476	Rat Rat Rat Guinea pig Rat Mouse Mouse
d-Limonene	Genotoxicity - in vitro LD50 (oral) LD50 (dermal) NOEL (oral) NOAEL (oral) Skin irritation NOAEL (development, oral) Skin sensitisation Mutagenicity Eye irritation NOEL (carcinogenicity, oral) Genotoxicity - in vivo	Not genotoxic 4400 mg/kg bw > 2000 mg/kg bw 5 mg/kg bw/d 30 mg/kg bw/d Irritant 600 mg/kg bw/d 10075 ug/cm ² Negative Non-irritant > 300 mg/kg bw/d > 2000 mg/kg bw/d	----- ----- ----- ----- ----- OECD 429 OECD 471 OECD 405 OECD 451	Rat Rabbit Rat Rat ----- Rat Mouse Rabbit Rat Rat
p-Menth-1-en-8-ol	NOAEL (development) -estimate Mutagenicity - estimate Skin sensitisation - estimate Genotoxicity - in vitro NOAEL (oral) - estimate LD50 (oral) LD50 (dermal)	250 mg/kg.d Not mutagenic Not sensitizing Not genotoxic 250 mg/kg bw/d 4300 mg/kg bw > 3000 mg/kg bw	Read across Read across Read across Read across	Rat Salmonella typhimurium Rat Rat Rabbit
Linalool	Skin irritation LD50 (dermal) LD50 (oral) Genotoxicity - in vivo Skin irritation NOAEL (fertility, oral) Mutagenicity Skin sensitisation Eye irritation NOAEL (oral) NOAEL (development, oral)	Mildly irritant 5610 mg/kg bw 2790 mg/kg bw Not genotoxic Irritant 500 mg/kg bw/d Negative 12650 ug/cm ² Non-irritant 117 mg/kg bw/d 365 mg/kg bw/d	----- ----- ----- OECD 475 OECD 404 OECD 471 OECD 429 OECD 405 ----- -----	Human Rabbit Rat Mouse Rabbit Rat Salmonella typhimurium Mouse Rabbit Rat Rat
Citral	NOAEL (development, oral) LD50 (dermal) NOAEL (oral) Genotoxicity - in vitro LD50 (oral) Mutagenicity NOEL (carcinogenicity, oral) NOAEL (developmental toxicity, inh.) Skin sensitisation Skin irritation Skin irritation Eye irritation Genotoxicity - in vivo NOAEL (fertility, oral)	200 mg/kg bw/d 2250 mg/kg bw 833 mg/kg bw/d Not genotoxic 4960 mg/kg bw Negative > 100 mg/kg bw/d 423 mg/m ³ Sensitizing Irritant Moderately irritant Slightly irritant Negative > 1000 mg/kg bw/d	OECD 421 ----- ----- ----- OECD 471 OECD 453 ----- OECD 406 OECD 405 OECD 474 OECD 421	Rat Rabbit Rat Rat Rat Rat Guinea pig Human Rabbit Rabbit Mouse Rat
Citronellol	Eye irritation Skin irritation NOAEL (developmental toxicity, dermal) NOAEL (fertility, dermal) LD50 (dermal) LD50 (oral) Skin irritation NOAEL (oral) Mutagenicity Skin sensitisation Genotoxicity - in vitro	Moderately irritant Moderately irritant > 300 mg/kg bw/d 300 mg/kg bw/d 2650 mg/kg bw 3450 mg/kg bw Moderately irritant > 50 mg/kg bw/d Not mutagenic 10875 ug/cm ² Not genotoxic	Patch test OECD 421 OECD 421 ----- OECD 471 OECD 429	Rabbit Human Rat Rat Rabbit Rat Rabbit Rat Salmonella typhimurium Mouse
Geraniol	NOAEL (developmental toxicity, dermal) NOAEL (fertility, dermal)	> 300 mg/kg bw/d > 300 mg/kg bw/d	OECD 421 OECD 421	Rat 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	

12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product. Ecotoxicity : Harmful to aquatic life with long lasting effects. Calculated LC50 (fish): 23 mg/l. Calculated EC50 (waterflea): 13 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment.
Persistence and degradability:	May cause long-term adverse effects in the aquatic environment.
Bioaccumulative potential:	Bioaccumulative potential : No specific information known.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
d-Limonene	NOEC (waterflea) -chronic Ultimate aerobic biodegradation (%) EC50 (waterflea) LC50 (fish) Log P(ow)	0,15 mg/l.d > 92 % 036 mg/l, 0,720 mg/l 4,38	OECD 202 OECD 203	Daphnia magna Daphnia magna Pimephales promelas
3a,4,5,6,7,7a-Hexahydro-4,7-methanoinden-6-yl acetate	EC50 (waterflea) -estimate LC50 (fish) - estimate Log P(ow)	54 mg/l 16 mg/l 3,1	----- -----	Daphnia magna Lepomis macrochirus
Citronellol	EC50(waterflea) Ultimate aerobic biodegradation (%) IC50 (algae) LC50 (fish) Log P(ow) BCF	17,48 mg/l 100 % 2,38 mg/l 10 mg/l 3,1000 204	OECD 301B ----- -----	 ----- -----
Geranyl acetate	EC50 (waterflea) LC50 (fish) - estimate IC50 (algae) Log P(ow) BCF	14,1 mg/l 68 mg/l 3,72 mg/l 4,3 235	OECD 201	Daphnia magna Leuciscus idus Desmodesmus subspicatus
Decanal	IC50 (algae) - estimate NOEC (waterflea) - acute Ultimate aerobic biodegradation (%) Primary aerobic biodegradation (%) EC50 (waterflea) LC50 (fish) Log P(ow) BCF	4,5 mg/l 0,588 mg/l 82 % 78 % 1,17 mg/l 1,45 mg/l 4,09 149	OECD 202 OECD 301 F OECD 301 C OECD 202 OECD 203	Pseudokirchneriella subcapitata Daphnia magna Daphnia magna Oncorhynchus mykiss
Octanal	Primary aerobic biodegradation (%) Ultimate aerobic biodegradation (%) EC50 (waterflea) -estimate LC50 (fish) Log P(ow)	77 % 46 % 1,23 mg/l 7,9 mg/l 2,8	OECD 302 C Read across ----- OECD 204	 Daphnia magna Poecilia reticulata
Nonanal	Primary aerobic biodegradation (%) Ultimate aerobic biodegradation (%) IC50 (algae) NOEC (waterflea) - acute EC50 (waterflea) LC50 (fish) - estimate Log P(ow) BCF	84 % 83 % 4,5 mg/l 2,14 mg/l 1,23 mg/l 1,45 mg/l 3,4 81	OECD 302 C OECD 301 F OECD 201 OECD 202 OECD 202	Pseudokirchneriella subcapitata Daphnia magna Daphnia magna Oncorhynchus mykiss



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13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

UN number: UN 1950

UN proper shipping name: Transport name : AEROSOLS

ADR/RID (road / railway)

Transport Hazard Class: 2

Classification code : 5F

Packaging group : -

Danger label: 2,1



IMDG (sea)

Transport Hazard Class: 2

Packaging group : -

EmS (fire / spill): F - D / S - U

Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.

In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information:

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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



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**Full text of R-phrases
mentioned in section 3:**

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

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

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

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

**Full text of H-phrases
mentioned in section 3:**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

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.

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.

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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

IATA : International Air Transport Association

IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code

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

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

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

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Number format : "," used as decimal separator.

Date of first issue : 20-January-2015

History:

End of Safety Data Sheet.



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SAFETY DATA SHEET

AIROMA, MYSTIQUE

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

Product name: Airoma, Mystique
Product Code: BAERO-02; 1252247; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable.

CLP classification (1272/2008/EC): Flammable aerosols, hazard category 1.

Human health hazards: Eye irritation, hazard category 2.
Skin sensitization, hazard category 1.
Specific target organ toxicity after single exposure, hazard category 3.
Hazardous to the aquatic environment — Chronic hazard category 3.
May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases: R12 Extremely flammable.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition — No smoking.
S23 Aerosol Do not breathe spray.
S51 Use only in well-ventilated areas.

Additional labelling: Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word: Danger

H- and P-phrases: H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.



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P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P261 Avoid breathing spray.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (99/45/EC and/or 1272/2008/EC)

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text:

Contains: Contains: alpha-Hexylcinnamaldehyde ; Coumarin .

3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008).

Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Substance	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Isobutane	50-75	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propylene Glycol	1-<5	57-55-56	200-338-0	-	-				
Butane	1-<5	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Alpha-Hexylcinnamaldehyde	0.1 -<1	101-86-0	202-983-3	Xi	38, 43	01-2119533092-50	Skin Sens 1B	GHS07	H317
1-4 Dioxacycloheptadecane-5,17-dione	0.1 -<1	105-95-3	203-347-8	N	51/53	01-2119976314-33	Aquatic Chronic 2	GHS09	H411
Propane	0.1 -<1	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Linalool	0.1 -<1	78-70-6	201-134-4	Xi	38	01-2119474016-42	Skin Irrit 2	GHS07	H315 H319
Coumarin	0.1 -<1	94-64-5	202-086-7	Xn	22-43	01-2119949300-45	Acute Tox 4 Skin Sens1	GHS07	H302 H317
2-(4-tert-butylbenzyl) propionaldehyde	0.1 -<1	80-54-6	201-289-8	Xn; N	22-38-43- 51/53-62	01-2119485965-18	Aquatic Chronic 2 Skin Irrit 2 Skin Sens 1 Acute Tox 4 Repr 2	GHS07 GHS08 GHS09	H302 H315 H317 H411 H316f
Benzyl benzoate	0.1 -<1	120-51-4	204-402-9	Xn N	22 51/53		Acute Tox 4 Aquatic Chronic 2	GHS07 GHS09	H302 H411
d-Limonene	0.1 -<1	5989-27-5	227-813-5	Xi; N	10,38,43, 50/53	01-2119529223-47	Flam Liq 3 Skin Irrit 2 Skin Sens 1 Aquatic Acute 1 Aquatic Chronic 1	GHS02 GHS07 GHS09	H226 H315 H317 H410
Geraniol	<0.1	106-24-1	203-377-1	Xi	38,41,43	01-2119552430-49	Skin Sens 1 Eye Dam 1 Skin Irrit 2	GHS05 GHS07	H317 H318 H315
Oils, Vetiver	<0.1	8016-96-4	282-490-8	Xi	36/38, 43		Skin Irrit 2 Skin Sens 1 Eye Irrit 2	GHS07	H315 H317 H319

Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation:

Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact:

Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.

Eye contact:

Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation persists.



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Ingestion: Aerosol/mist: Ingestion is unlikely to occur.

Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation: May cause headache, dizziness and a feeling of sickness. May cause irritation to respiratory airways and coughing.

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

Eye contact: May cause stinging of eyes and redness.

Ingestion: May cause a feeling of sickness, vomiting and diarrhoea.

Indication of any immediate medical attention and special treatment needed

Note to physicians: None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.

Not suitable: Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.

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

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.

Reference to other sections

Reference to other sections: See also section 8.

7. HANDLING AND STORAGE

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.

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.

Specific end use(s)

Use: Use only as directed.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m ³	2400 mg/m ³	
Ethanol	GB	1920 mg/m ³		
Propan-2-ol	GB	999 mg/m ³	1250 mg/m ³	
Propylene glycol	GB	474 mg/m ³		Total Vapour and Particulates
Propylene glycol		474 mg/m ³		MAC UK: Total Vapour and Particulates
Butane	GB	1450 mg/m ³	1810 mg/m ³	
Butane		1450 mg/m ³	1810 mg/m ³	
Propane		1800 mg/m ³		
d-Limonene		110 mg/m ³		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 Inhalation	1900 mg/m ³			343 mg/kg bw/day 950 mg/m ³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m ³
Propylene glycol	Inhalation			10 mg/m ³	168 mg/m ³
Alpha-Hexylcinnamaldehyde	Dermal Inhalation	6.28 mg/m ³			18.2 mg/kg bw/day 0,078 mg/m ³
Linalool	Dermal Inhalation		5 mg/kg bw/day 16,5 mg/m ³		2,5 mg/kg bw/day 2,8 mg/m ³
Coumarin	Dermal Inhalation				0,79 mg/kg bw/day 5,52 mg/m ³
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation	0,41 mg/kg bw 0,29 mg/m ³	20 mg/kg bw 0,29 mg/m ³	0,048 mg/m ³	3,33 mg/kg bw/day 0,048 mg/m ³
d-Limonene	Inhalation				33,3 mg/m ³
Geraniol	Dermal Inhalation				12,5 mg/kg bw/day 161,6 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
Alpha-Hexylcinnamaldehyde	Dermal Inhalation Oral	4,71 mg/m ³			9,11 mg/kg bw/day 0,019 mg/m ³ 0,056 mg/kg bw/day
Linalool	Dermal Inhalation Oral		2,5 mg/kg bw 4,1 mg/m ³ 1,2 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day 0,7 mg/m ³ 0,2 mg/kg bw/day
Coumarin	Dermal Inhalation Oral	0,41 mg/kg bw 0,07 mg/m ³	20 mg/kg bw 0,07 mg/m ³ 0,041 mg/kg bw		1,67 mg/kg bw/day 0,012 mg/m ³ 0,007 mg/kg bw/day
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation Oral				
d-Limonene	Inhalation Oral				8,33 mg/m ³ 4,76 mg/kg bw/day
Geraniol	Dermal Inhalation Oral				7,5 mg/kg bw/day 47,8 mg/m ³ 13,75 mg/kg bw/day



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Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2.9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
Alpha-Hexyl cinnamaldehyde	Water Sediment Intermittent Water STP Soil Oral	0,03 mg/l 47,7 mg/kg	0,003 mg/l 4,77 mg/kg	0,03 mg/l 10 mg/l 9,51 mg/l 6,6 mg/kg/food
1-4 Dioxacycloheptadecane-5,17-dione	Water Sediment Intermittent Water STP Soil Oral	0,00187 mg/l 1,26 mg/kg	0,000187 mg/l 0,13 mg/kg	0,0187 mg/l 124 mg/l 0,25 mg/kg 33,3 mg/kg/food
Linalool	Water Sediment Intermittent Water STP Soil Oral	0,2 mg/l 2,22 mg/kg	0,02 mg/l 0,222 mg/kg	2 mg/l 10 mg/l 0,327 mg/kg 7,8 mg/kg food
Coumarin	Water Sediment Intermittent Water STP Soil Oral	0,019 mg/l 0,15 mg/kg	0,0019 mg/l 0,015 mg/kg	0,014 mg/l 6,4 mg/l 0,018 mg/kg 30,7 mg/kg/food
2-(4-tert-butylbenzyl) propionaldehyde	Water Sediment Intermittent Water STP Soil	0,0020 mg/l 0,0584 mg/kg	0,0002 mg/l 0,0058 mg/kg	0,0204 mg/l 1,049 mg/l 0,463 mg/kg
d-Limonene	Water Sediment STP Soil Oral	0,0054 mg/l 1,32 mg/kg	3,0005 mg/l 0,13 mg/kg	1,8 mg/l 0,232 mg/kg 3,33 mg/kg food
Geraniol	Water Sediment Intermittent Water STP Soil	0,0108 mg/l 0,115 mg/kg	0,0010 mg/l 0,0115 mg/l	0,108 mg/l 0,7 mg/l 0,0167 mg/kg

Exposure controls

Engineering measures:

Hygienic measures:

Comply with standard precautionary measures for working with chemicals.

When using do not eat, drink or smoke.



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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 clothing is not required under normal conditions of use.

Respiratory protection:

Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection:

Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitrile. $\pm 0,5$ mm Indication of permeation breakthrough time: < 1 hour.

Eye protection:

Wear appropriate safety glasses when there is danger of possible eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

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 known.
Vapour pressure (20°C):	350000 Pa
Vapour density (20°C):	> 1 (air = 1)
Relative density (20°C):	0,637 g/ml
Evaporation rate:	Not known

10. STABILITY AND REACTIVITY

Reactivity:	See sub-sections below.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No other hazardous reactions known.
Conditions to avoid:	Keep away from sources of ignition and sources of heat. See section 7.
Incompatible materials:	Not applicable.
Hazardous decomposition products:	: Not known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects: No toxicological research has been carried out on this product.

Inhalation

Acute toxicity:	Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 3 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
Corrosion/irritation:	May cause irritation to respiratory airways and coughing.
Sensitisation:	Not classified - based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified - based on available data, the classification criteria are not met.
Mutagenicity:	Not classified - based on available data, the classification criteria are not met.



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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:

May cause redness. Not classified - based on available data, the classification criteria are not met.

Sensitisation:

May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity:

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

Eye contact

Corrosion/irritation:

Irritant.

Ingestion

Acute toxicity:

Aerosol/mist: Ingestion is unlikely to occur. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation:

Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity:

Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity:

Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	----	Rat
	LD50 (oral)	4396 mg/kg bw	----	Rat
	LD50 (dermal)	12800 mg/kg bw	----	Rat
	LC50 (inhalation)	46600 mg/m ³	----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m ³	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity, inh.)	12500 mg/m ³		Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
Alpha-Hexyl cinnamaldehyde	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)	>30000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	>5000 mg/m ³	OECD 403	Rat
	LD50 (oral)	>2450 mg/kg bw	OECD 401	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin sensitisation	23622 ug/cm ²	HRIPT	Human
	Skin sensitisation	2372 ug/cm ²	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



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Coumarin	Skin sensitisation Skin sensitisation NOAEL (development, oral) LD50 (oral) Eye irritation NOAEL (oral) Skin irritation Genotoxicity - in vitro Mutagenicity Genotoxicity - in vivo NOEL (carcinogenicity) - estimate	3543 ug/cm2 > 12500 ug/cm2 > 115 mg/kg bw/d 680 mg/kg bw Non-irritant > 138,3 mg/kg bw/d Non-irritant Not genotoxic Negative > 105 mg/kg bw/d Not carcinogenic	HR IPT OECD 429 ----- OECD 476 OECD 471 OECD 474	Human Mouse Mouse Rat Rabbit Mouse Rabbit Salmonella typhimurium Mouse
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12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product. Ecotoxicity : Harmful to aquatic life with long lasting effects. Calculated LC50 (fish): 73 mg/l. Calculated EC50 (waterflea): 167 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment.
Persistence and degradability:	No specific information known.
Bioaccumulative potential:	Contains bioaccumulating substances.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
1-4 Dioxacycloheptadecane-5,17-dione	Ultimate aerobic biodegradation (%) NOEC (algae) IC50 (algae) EC50 (waterflea) LC50 (fish) Log P(ow) BCF	> 60 % 3,48 mg/l 14,58 mg/l 8,09 mg/l 2,13 mg/l 2,9 319,3	OECD 301 B ----- ----- ----- -----	Desmodesmus subspicatus Desmodesmus subspicatus Daphnia magna Brachydanio rerio
2-(4-tert-butylbenzyl)propionaldehyde	EC100 (waterflea) Ultimate aerobic biodegradation (%) EC50 (waterflea) LC50 (fish) EC0 (waterflea) Log P(ow) BCF	25 mg/l 68 % 10,7 mg/l 2,2 mg/l 6,25 mg/l 4,3000 274	OECD 301 F OECD 203	Daphnia magna Daphnia magna Brachydanio rerio Daphnia magna
Benzyl benzoate	LC0 (fish) LC100 (fish) Ultimate aerobic biodegradation (%) LC50 (fish) - estimate Log P(ow) BCF	1,9 mg/l 2,84 mg/l 94 % > 1 mg/l 3,97 24	OECD 203 OECD 203 OECD 301 F	Brachydanio rerio Brachydanio rerio
d-Limonene	NOEC (waterflea) -chronic Ultimate aerobic biodegradation (%) EC50 (waterflea) LC50 (fish) Log P(ow)	0,15 mg/l.d > 92 % 036 mg/l, 0,720 mg/l 4,38	OECD 202 OECD 203	Daphnia magna Daphnia magna Pimephales promelas

13. DISPOSAL CONSIDERATIONS

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.



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14. TRANSPORT INFORMATION

UN number: UN 1950
UN proper shipping name: Transport name : AEROSOLS

ADR/RID (road / railway)

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



IMDG (sea)

Transport Hazard Class: 2
Packaging group : -
EmS (fire / spill): F - D / S - U
Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.

In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information:

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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

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

Full text of R-phrases mentioned in section 3:

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R67 Vapours may cause drowsiness and dizziness.



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**Full text of H-phrases
mentioned in section 3:**

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Number format : "," used as decimal separator.

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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labeling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code
IMDG : International Maritime Dangerous Goods Code
LD50/LC50 : Lethal Dose/Concentration for 50% of a population
MAC : Maximum Allowable Concentration
MARPOL : International Convention for the Prevention of Pollution From Ships
NO(A)EL : No Observed (Adverse) Effect Level
OECD : Organisation for Economic Co-operation and Development
PBT : Persistent, Bioaccumulative and Toxic
PC : Chemical product category
PT : Product type
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STP : Sewage Treatment Plant
SU : Sector of Use
TWA/STEL : Time-Weighted Average/Short Term Exposure Limit
UN : United Nations
VOC : Volatile Organic Compounds
vPvB : Very Persistent and Very Bioaccumulative
Date of first issue : 11th February 2014

History:

End of Safety Data Sheet.



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SAFETY DATA SHEET

AIROMA, HERBAL FERN

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

Product name: Airoma, Herbal Fern
Product Code: BAERO-03; 1252248; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC): Extremely flammable.

CLP classification (1272/2008/EC): Flammable aerosols, hazard category 1.

Human health hazards: Eye irritation, hazard category 2.
Specific target organ toxicity after single exposure, hazard category 3.
Hazardous to the aquatic environment — Chronic hazard category 3.
Causes serious eye irritation May cause an allergic reaction, Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases:
R12 Extremely flammable.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition — No smoking.
S23 Aerosol Do not breathe spray.
S51 Use only in well-ventilated areas.

Additional labelling: Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word: Danger

H- and P-phrases:
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
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*



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P251 'Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P210 'Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 'Do not spray on an open flame or other ignition source.

Additional labelling (99/45/EC and/or 1272/2008/EC)

* Contains d-Limonene Pentadecan-15-olide Citronellol 7-Hydroxycitronellal alpha-Hexylcinnamaldehyde Geranyl acetate Pin-2(3)-ene May produce an allergic reaction.

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text:

Contains: Propan-2-ol

% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). 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. Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Information on Hazardous Substances

Substance Name	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Isobutane	50-75	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propane	0.1 -<1	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Propylene Glycol	1-<5	57-55-56	200-338-0	-	-	01-2119456809-23			
Butane	1-<5	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
1-4 Dioxacycloheptadecane-5,17-dione	1-<5	105-95-3	203-347-8	N	51/53	01-2119976314-33	Aquatic Chronic 2	GHS09	H411
Linalyl Acetate	0.1 -<1	115-95-7	204-116-4	Xi	38	01+2119454789-19	Skin Irrit 2 Eye Irrit 2	GHS07	H315 H319
d-Limonene	0,1 -<1	5989-27-5	227-813-5	Xi; N	10,38,43, 50/53 65	01-2119529223-47	Flam Liq 3 Skin Irrit 2 Skin Sens 1B Asp Tox 1 Aquatic Acute 1 Aquatic Chronic 1	GHS02 GHS07 GHS08 GHS09	H226 H304 H315 H317 H410
Pentadecan-15-olide	0,1 -<1	106-02-5	203-354-6	Xi	43	01-2119987323-31	Skin Sens 1B Aquatic Chronic 2	GHS07 GHS09	H317 H411
2'-Acetonaphnone	0,1 -<1	93-08-3	202-216-2	N	51/53		Aquatic Chronic 2	GHS09	H411
Citronellol	0,1 -<1	106-22-9	203-375-0	Xi; N	38-43- 51/53	01-2119453995-23	Eye Irrit 2 Skin Irrit 2 Skin Sens 1B	GHS07	H319 H317 H315
7-Hydroxycitronellal	0,1 -<1	107-75-5	203-518-7	Xi	36-43		Skin Sens 1 Eye Irrit 2	GHS07	H317 H319
Alpha-Hexyl cinnamaldehyde	<0.1	101-86-0	202-983-3	Xi	38, 43	01-2119533092-50	Skin Sens 1B	GHS07	H317
Oxacyclohexadecen-2-one	<0.1	34902-57-3	609-040-9	N	50/53	01-0000016883-62	Aquatic Acute 1 Aquatic Chronic 1	GHS09	H410
Geranyl acetate	<0.1	105-87-3	203-341-5	Xi; N	38-43- 51/53	01-2119973480-35	Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 3	GHS07	H315 H317 H412
Pin-2(3)-ene	<0.1	80-56-8	201-291-9	Xn	10-38-43- 65	01-2119519223-49	Flam. Liq. 3; Skin Sens. 1; Asp. Tox. 1; Skin Irrit 2	GHS07 GHS08 GHS02	H226 H317 H315 H304

Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.



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4. FIRST AID MEASURES

Description of 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.

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.

Indication of any immediate medical attention and special treatment needed

Note to physicians:	None known.
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5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable:	Carbon dioxide (CO ₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable:	Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.
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Environmental precautions

Environmental precautions:	Avoid release of product into sewers, surface water and/or ground water.
Other information:	Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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.
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Reference to other sections

Reference to other sections:	See also section 8.
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7. HANDLING AND STORAGE

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.
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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.

Specific end use(s)

Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m ³	2400 mg/m ³	
Ethanol	GB	1920 mg/m ³		
Ethanol		260 mg/m ³	1900 mg/m ³	MAC: NL
Propan-2-ol	GB	999 mg/m ³	1250 mg/m ³	
Propane		1800 mg/m ³		
Propylene glycol	GB	474 mg/m ³		Total Vapour and Particulates
Propylene glycol		474 mg/m ³		MAC UK: Total Vapour and Particulates
Butane	GB	1450 mg/m ³	1810 mg/m ³	
Butane		1450 mg/m ³	1810 mg/m ³	
d-Limonene		110 mg/m ³		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 Inhalation	1900 mg/m ³			343 mg/kg bw/day 950 mg/m ³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m ³
Propylene glycol	Inhalation			10 mg/m ³	168 mg/m ³
Linalyl Acetate	Dermal Inhalation	0,8 mg/kg bw			2,5 mg/kg bw/day 2,75 mg/m ³
d-Limonene	Inhalation				33,3 mg/m ³
Citronellol	Dermal Inhalation				45,8 mg/kg bw/day 161,6 mg/m ³
Alpha-Hexylcinnamaldehyde	Dermal Inhalation	0,525 mg/kg bw 6,28 mg/m ³		0,525 mg/kg bw/day	18,2 mg/kg bw/day 0,078 mg/m ³
Geranyl acetate Dermal Inhalation	Dermal Inhalation				35,5 mg/kg bw/day 62,59 mg/m ³
Pin-2(3)-ene	Inhalation				5,98 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
Linalyl Acetate	Dermal Inhalation Oral	0,8 mg/kg bw		0,8 mg/kg bw/day	1,25 mg/kg bw/day 0,68 mg/m ³ 0,2 mg/kg bw/day
d-Limonene	Inhalation Oral				8,33 mg/m ³ 4,76 mg/kg bw/day
Citronellol	Dermal Inhalation Oral				27,5 mg/kg bw/day 47,8 mg/m ³ 13,75 mg/kg bw/day



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Chemical Name	Route of Exposure	DNEL Short Term		DNEL Long Term	
		Local Effect	Systemic Effect	Local Effect	Systemic Effect
Alpha-Hexylcinnamaldehyde	Dermal Inhalation Oral	0,0787 mg/kg bw 4,71 mg/m ³		0,0787 mg/kg bw/day	9,11 mg/kg bw/day 0,019 mg/m ³ 0,056 mg/kg bw/day
Geranyl acetate	Dermal Inhalation Oral				17,75 mg/kg bw/day 15,4 mg/m ³ 8,9 mg/kg bw/day
Pin-2(3)-ene	Inhalation Oral				1,06 mg/m ³ 0,31 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2,9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
1,4-Dioxacycloheptadecane-5,17-dione	Water Sediment Intermittent water STP Soil Oral	0,00187 mg/l 1,26 mg/kg	0,000187 mg/l 0,13 mg/kg	0,0187 mg/l 124 mg/l 0,25 mg/kg 33,3 mg/kg food
Linalyl acetate	Water Sediment Intermittent water STP Soil	0,011 mg/l 0,609 mg/kg		0,0011 mg/l 0,0609 mg/kg 0,11 mg/l 10 mg/l 0,115 mg/kg
d-Limonene	Water Sediment STP Soil Oral	0,0054 mg/l 1,32 mg/kg	3,0005 mg/l 0,13 mg/kg	1,8 mg/l 0,232 mg/kg 3,33 mg/kg food
Pentadecan-15-olide	Water Sediment STP Soil	0,0027 mg/l 21 mg/kg	0,00027 mg/l 4,2 mg/kg	10 mg/l 10 mg/kg
Citronellol	Water Sediment Intermittent Water STP Soil	0,0024 mg/l 0,0256 mg/kg	0,00024 mg/l 0,00256 mg/kg	0,024 mg/l 580 mg/l 0,00371 mg/kg
Alpha Hexylcinnamaldehyde	Water Sediment Intermittent water STP Soil Oral	0,03 mg/l 47,7 mg/kg	0,003 mg/l 4,77 mg/kg	0,03 mg/l 10 mg/l 9,51 mg/l 6,6 mg/kg/food
Geranyl Acetate	Water Sediment Intermittent Water STP Soil	0,00372 ,g/l 0,442 mg/kg	0,000372 mg/l 0,442 mg/kg	0,0372 mg/ 8 mg/l 0,0859 mg/kg



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Pin-2(3)-ene	Water Sediment STP Soil Oral	0,004 mg/l 1,033 mg/kg	0,0004 mg/l 0,103 mg/kg	3,26 mg/l 0,539 mg/kg 1,35 mg/kg food
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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 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: nitrile. $\pm 0,5$ 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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 known.

Vapour pressure (20°C):

350000 Pa

Vapour density (20°C):

> 1 (air = 1)

Relative density (20°C):

0,65 g/ml

Evaporation rate:

Not known (n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:

See sub-sections below.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

No other hazardous reactions known.

Conditions to avoid:

Keep away from sources of ignition and sources of heat. See section 7.

Incompatible materials:

Not applicable.

Hazardous decomposition products:

Not known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects: No toxicological research has been carried out on this product.



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Inhalation

Acute toxicity:

Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 3 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness. 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, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Corrosion/irritation:

May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.

Sensitisation:

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

Carcinogenicity:

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

Mutagenicity:

Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity:

Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation:

Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

Sensitisation:

May produce an allergic reaction.

Mutagenicity:

Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation:

Irritant.

Ingestion

Acute toxicity:

Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1179 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation:

Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity:

Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity:

Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
Propan-2-ol	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (oral)	870 mg/kg bw/d	----	Rat
	LD50 (oral)	4396 mg/kg bw	----	Rat
	LD50 (dermal)	12800 mg/kg bw	----	Rat
	LC50 (inhalation)	46600 mg/m ³	----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m ³	OECD 451	Rat



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Chemical Name	Property	Result	Method	Test Animal
Propan-2-ol Continued	Genotoxicity - in vivo NOEL (carcinogenicity, inh.) Genotoxicity - in vitro	Not genotoxic 12500 mg/m ³ Not genotoxic	OECD 474 OECD 476	Mouse Mouse
d-Limonene	NOEL (carcinogenicity) - estimate. NOEL (carcinogenicity, oral) LC50 (inhalation) - estimate Genotoxicity - in vivo Eye Irritation Mutagenicity Skin sensitisation NOAEL (Development) Oral Skin irritation NOAEL (oral) NOEL (oral) LD50 (dermal) LD50 (oral) Genotoxicity - in vivo	Not carcinogenic >75 mg/kg bw/d >5000 mg/m ³ >1000 mg/kg bw/d Non-irritant Negative 10075 ug/cm ² 600 mg/kg bw/d Irritant 30 mg/kg bw/d >5 mg/kg bw/d >2000 mg/kg bw 4400 mg/kg bw Not genotoxic	OECD 451 - OECD 405 OECD 471 OECD 429 - - - -	Rat - Rat Rabbit Mouse Rat - Rat Rat Rabbit Rat
Pentadecan-15-olide	LD50 (dermal) LD50 (oral) Genotoxicity - in vivo Genotoxicity - estimate Skin sensitisation Mutagenicity NOAEL (oral) - estimate NOAEL (Development) estimate NOAEL (Fertility) estimate Skin Irritation Skin Irritation	>5000 mg/kg bw >5000 mg/kg bw >1600 mg/kg bw/d Not genotoxic 5450 ug/cm ² Negative >1000 mg/kg bw/d >1000 mg/kg d >1000 mg/kg d Non irritant Slightly irritant	- - OECD 429 OECD 471 Read across Read across Read across Patch test OECD 404	Rabbit Rat Mouse Mouse Salmonella Typhimurium Rat Rat Rat Human Rabbit
Citronellol	Eye irritation Skin irritation NOAEL (developmental toxicity, dermal) NOAEL (fertility, dermal) LD50 (dermal) LD50 (oral) Skin irritation NOAEL (oral) Mutagenicity Skin sensitisation Genotoxicity - in vitro	Moderately irritant Moderately irritant >300 mg/kg bw/d 300 mg/kg bw/d 2650 mg/kg bw 3450 mg/kg bw Moderately irritant >50 mg/kg bw/d Not mutagenic 10875 ug/cm ² Not genotoxic	Patch test OECD 421 OECD 421 - OECD 471 OECD 429	Rabbit Human Rat Rat Rabbit Rat Rabbit Rat Salmonella Typhimurium Mouse
7-Hydroxycitronellal	Skin irritation LD50 (dermal) Skin sensitisation Skin irritation Eye irritation Skin irritation LD50 (oral) NOEL (oral) Genotoxicity - in vivo NOEL (carcinogenicity, estimate) Mutagenicity	Irritant >2000 mg/kg bw 5612 ug/cm ² 850 ug/cm ² Irritant Non irritant >5000 mg/kg bw 250 mg/kg bw/d Not genotoxic Not carcinogenic Negative	- OECD 429 OECD 404 - OECD 471	Rabbit Mouse Rat Mouse Salmonella Typhimurium
Alpha-Hexyl cinnamaldehyde	Genotoxicity - in vivo Genotoxicity - in vitro NOAEL (oral) - estimate LD50 (dermal) LC50 (inhalation) LD50 (oral) Mutagenicity Skin sensitisation Skin irritation NOAEL (development, oral) Eye irritation NOAEL (Dermal)	Not genotoxic Not genotoxic 30 mg/kg bw/d >30000 mg/kg bw >5000 mg/m ³ >2450 mg/kg bw Negative 2372 ug/cm ² Moderately irritant 100 mg/kg bw/d Non-irritant 25 mg/kg bw/d	OECD 474 OECD 476 Read Across OECD 402 OECD 403 OECD 401 OECD 471 OECD 429 OECD 404 OECD 421	Rat Rabbit Rat Rat Salmonella typhimurium Mouse Rabbit Rat Rabbit Rat
Geranyl Acetate	Mutagenicity LD50 (oral) LD50 (dermal) Skin Irritation NOAEL (dermal) estimate NOEL (Carcinogenicity) estimate	Negative 6330 mg/kg bw >5460 mg/kg bw Severely irritant 10000 mg/kg bw/d >2000 mg/kg.d	OECD 471 - Read across Read across	- Rat Rabbit Rabbit Mouse Rat



Chemical Name	Property	Result	Method	Test Animal
Pin-2(3)-ene	NOAEL (oral) Estimate	250 mg/kg bw/d	Read across	Rat
	NOAEL (inhalation)	170 mg/m ³	OECD413	
	LD50 (oral)	3700 mg/kg bw	-	
	NOAEL (developmental) estimate	250 mg/kg.d	Read across	Rat
	Genotoxicity – estimate	Not genotoxic	Read across	Rabbit
	Eye irritation – estimate	Moderately irritant	Read across	
	Mutagenicity	Not mutagenic	-	
	LD50 (dermal)	<5000 mg/kg bw	-	Rabbit
	Skin sensitisation	Sensitising	-	Guinea Pig
	Skin irritation	Moderately irritant	-	Rabbit
	Skin irritation	Non-irritant	-	Human

12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product.
Ecotoxicity:	Harmful to aquatic organisms. Calculated LC50 (fish): 64 mg/l. Calculated EC50 (waterflea): 38 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment.
Persistence and degradability:	May cause long term adverse effects in the aquatic environment.
Bioaccumulative potential:	No specific information known.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
1-4 Dioxacycloheptadecane-5,17-dione	LC50 (fish)	2,13 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic biodegradation (%)	> 60 %	OECD 301B	
	NOEC (algae)	3,48 mg/l	-----	Desmodesmus subspicatus
	IC50 (algae)	14,58 mg/l	-----	Desmodesmus subspicatus
	EC50 (waterflea)	8,09 mg/l	-----	Daphnia magna
	Log P(ow)	4,3		
	BCF	319,3		
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l,	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	> 92 %		
	NOEC (waterflea) -chronic	0,15 mg/l.d		Daphnia magna
	Log P(ow)	4,38		
	BCF	683		
2-Acetonaphtone	LC50 (fish)	9,8 mg/l		Brachydanio rerio
	Log P(ow)	2,9		
Oxycycloheadecen-2-one	LC50 (fish)	2 mg/l		-
	EC50 (waterflea)	0,48 mg/l		
	IC50 (algae)	2.4 mg/l		
	Log P(ow)	5,53		

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

UN number:	UN 1950
UN proper shipping name:	Transport name : AEROSOLS
ADR/RID/ADN (road / railway/inland waterways)	
Transport Hazard Class:	2
Classification code :	5F



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Packaging group :

-

Danger label:

2,1



Other information:

Not intended for carriage by inland waterways in tank-vessels.

IMDG (sea)

Transport Hazard Class:

2

Packaging group :

-

EmS (fire / spill):

F - D / S - U

Marine pollutant:

No

IATA (air)

Transport Hazard Class:

2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations:

Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.

In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment:

Not applicable.

16. OTHER INFORMATION

Other information:

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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

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

SDS Revision Date:

2nd April 2015

Full text of R-phrases mentioned in section 3:

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R36 Irritating to eyes.

R38 Irritating to skin.

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

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful; may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

Full text of H-phrases mentioned in section 3:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.



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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.
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 H-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.
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 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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labelling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code
IMDG : International Maritime Dangerous Goods Code
LD50/LC50 : Lethal Dose/Concentration for 50% of a population
MAC : Maximum Allowable Concentration
MARPOL : International Convention for the Prevention of Pollution From Ships
NO(A)EL : No Observed (Adverse) Effect Level
OECD : Organisation for Economic Co-operation and Development
PBT : Persistent, Bioaccumulative and Toxic
PC : Chemical product category
PT : Product type
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STP : Sewage Treatment Plant
SU : Sector of Use
TWA/STEL : Time-Weighted Average/Short Term Exposure Limit
UN : United Nations
VOC : Volatile Organic Compounds
vPvB : Very Persistent and Very Bioaccumulative

End of Safety Data Sheet.



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SAFETY DATA SHEET

AIROMA, COOL

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

Product name: Airoma, Cool
Product Code: BAERO-01; 1252246; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.

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

Application: SU22 Professional use. For industrial or institutional use. Air-freshener.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable. Dangerous for the environment.

CLP classification (1272/2008/EC): Aerosols, category 1.

Eye irritation, category 2.

Specific target organ toxicity after single exposure, category 3.

Skin sensitization, category 1.

Hazardous to the aquatic environment — Chronic category 3.

Human health hazards: Causes serious eye irritation. May cause sensitisation by skin contact. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Avoid contact with skin. Wear suitable gloves. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases:
R12 Extremely flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition — No smoking.
S23 Aerosol Do not breathe spray.
S51 Use only in well-ventilated areas.

Additional labelling: Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word: Danger



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H- and P-phrases:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P261 Spray Avoid breathing spray.

Additional labelling (99/45/EC and/or 1272/2008/EC)

- Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text: Contains: Propan-2-ol d-Limonene, Hexyl salicylate, alpha-Hexylcinnamaldehyde, Butylphenyl, methylpropional Pin-2(10)-ene, 4-(4-Hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde, Geranyl acetate.
- 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). 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. Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Information on Hazardous Substances

Substance Name	Conc w/w %	CAS No	EC No	Symbols	R Phrases	REACH No	Hazard Class	Pictograms	H Phrases
Isobutane	25-50	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propane	5-<10	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Propylene Glycol	5-<10	57-55-56	200-338-0	-	-	01-2119456809-23	-	-	-
2,6-Dimethyloct-7-en-2-ol	1 - < 5	18479-58-8	242-362-4	Xi	38	01-2119457274-37	Skin Irrit. 2 Eye Irrit. 2	GHS07	H315 H319
Butane	1-<5	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Linalyl Acetate	0.1 - <1	115-95-7	204-116-4	Xi	38	01-2119454789-19	Skin Irrit 2 Eye Irrit 2	GHS07	H315 H319
1-4 Dioxacycloheptadecane-5,17-dione	0.1 - <1	105-95-3	203-347-8	N	51/53		Aquatic Chronic 2	GHS09	H411
d-Limonene	0.1 -<1	5989-27-5	227-813-5	Xi; N	10,38,43, 50/53 65	01-2119529223-47	Flam Liq 3 Skin Irrit 2 Skin Sens 1B Asp Tox 1 Aquatic Acute 1 Aquatic Chronic 1	GHS02 GHS07 GHS08 GHS09	H226 H304 H315 H317 H410
Hexyl Salicylate	0.1 -<1	6259-76-3	228-408-6	Xi; N	38, 43, 50-53	01-2119638275-36	Skin Irrit 2 Skin Sens 1 Aquatic Acute 1 Aquatic Chronic 1	GHS07 GHS09	H315 H317 H400 H410
Alpha-Hexyl cinnamaldehyde	0.1 -<1	101-86-0	202-983-3	Xi	38, 43	01-2119533092-50	Skin Sens 1B	GHS07	H317
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	0.1 -<1	28219-61-6	248-908-8	Xi; N	36-50/53	01-2119529224-45	Eye Irrit. 2 Aquatic Chronic 1	GHS07 GHS09	H319 H400 H410
2-(4-tert-butylbenzyl) propionaldehyde	0.1 -<1	80-54-6	201-289-8	Xn; N	22-38-43- 51/53-62	01-2119485965-18	Aquatic Chronic 2 Skin Irrit. 2 Skin Sens. 1 Acute Tox. 4 Repr. 2	GHS07; GHS08; GHS09	H302 H315 H317 H411 H361f



Substance Name	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Pin-2(10)-ene	0.1 -<1	127-91-3	204-872-5	Xn	10-38-43-65	01-2119519230-54	Flam. Liq. 3 Skin Sens. 1B Asp. Tox. 1 Skin Irrit. 2	GHS02 GHS07 GHS08	H226 H317 H304 H315
4-(4-Hydroxy-4-methyl pentyl)cyclohex-3-enecarbaldehyde	0.1 -<1	31906-04-4	250-863-4	Xi	43-52/53		Skin Sens. 1 Aquatic Chronic 3	GHS07	H317; H412
Geranyl acetate	<0.1	105-87-3	203-341-5	Xi; N	38-43-51/53	01-2119973480-35	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 3	GHS07	H315 H317 H412
Ethyl 2-naphthyl ether	< 0.1	93-18-5	202-226-7	Xi; N	38-51/53		Skin Irrit. 2 Eye Irrit. 2 Aquatic Chronic 2	GHS07 GHS09	H315 H319 H411

Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4. FIRST AID MEASURES

Description of 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.

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.

Indication of any immediate medical attention and special treatment needed

Note to physicians: None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable: Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

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.



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

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.

Reference to other sections

Reference to other sections: See also section 8.

7. HANDLING AND STORAGE

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.

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.

Specific end use(s)

Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m³	2400 mg/m³	
Ethanol	GB	1920 mg/m³		
Ethanol		260 mg/m³	1900 mg/m³	MAC: NL
Propan-2-ol	GB	999 mg/m³	1250 mg/m³	
Propane		1800 mg/m³		
Propylene glycol	GB	474 mg/m³		Total Vapour and Particulates
Propylene glycol		474 mg/m³		MAC UK: Total Vapour and Particulates
Butane	GB	1450 mg/m³	1810 mg/m³	
Butane		1450 mg/m³	1810 mg/m³	
d-Limonene		110 mg/m³		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 Inhalation	1900 mg/m³			343 mg/kg bw/day 950 mg/m³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m³
Propylene glycol	Inhalation			10 mg/m³	168 mg/m³
2,6-Dimethyloct-7-en-2-ol	Dermal Inhalation				20,8 mg/kg bw/day 73,5 mg/m³
Linalyl Acetate	Dermal Inhalation	0,8 mg/kg bw		0,8 mg/kg bw/day	2,5 mg/kg bw/day 2,75 mg/m³
d-Limonene	Inhalation				33,3 mg/m³
Hexyl salicylate	Dermal Inhalation		2083 mg/kg bw 0,729 mg/m³		2083 mg/kg bw/day 0,729 mg/m³
Alpha-Hexylcinnamaldehyde	Dermal Inhalation	0,525 mg/kg bw 6,28 mg/m³		0,525 mg/kg bw/day	18,2 mg/kg bw/day 0,078 mg/m³
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Dermal Inhalation		6 mg/kg bw 7 mg/m³		1,4 mg/kg bw/day 7 mg/m³
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation	0,41 mg/kg bw 0,29 mg/m³	20 mg/kg bw 0,29 mg/m³	0,048 mg/m³	3,33 mg/kg bw/day 0,048 mg/m³



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Pin-2(10)-ene	Inhalation				5,98 mg/ m ³
Geranyl acetate	Dermal				35,5 mg/kg bw/day
	Inhalation				62,59 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
2,6-Dimethyloct-7-en-2-ol	Dermal Inhalation Oral				12,5 mg/kg bw/day 21,7 mg/m ³ 12,5 mg/kg bw/day
Linalyl Acetate	Dermal Inhalation Oral	0,8 mg/kg bw		0,8 mg/kg bw/day	1,25 mg/kg bw/day 0,68 mg/m ³ 0,2 mg/kg bw/day
d-Limonene	Inhalation Oral				8,33 mg/m ³ 4,76 mg/kg bw/day
Hexyl salicylate	Dermal Inhalation Oral	1250 mg/kg bw 0,219 mg/m ³ 0,0625 mg/kg/bw			1250 mg/kg bw 0,219 mg/m ³ 0,0625 mg/kg/bw day
Alpha-Hexylcinnamaldehyde	Dermal Inhalation Oral	0,0787 mg/kg bw 4,71 mg/m ³		0,0787 mg/kg bw/day	9,11 mg/kg bw/day 0,019 mg/m ³ 0,056 mg/kg bw/day
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten- 1-yl)-2-buten-1-ol	Dermal Inhalation Oral		3 mg/kg bw 1,5 mg/m ³ 3 mg/kg/bw		0,5 mg/kg bw/day 1,5 mg/m ³ 0,5 mg/kg/bw/day
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation Oral	0,41 mg/kg bw 0,07 mg/m ³	20 mg/kg bw 0,007 mg/m ³ 0,041 mg/kg/bw	0,012 mg/m ³	1,67 mg/kg bw/day 0,012 mg/m ³ 0,007 mg/kg/bw/day
Pin-2(10)-ene	Inhalation Oral				1,06 mg/m ³ 0,31 mg/kg bw/day
Geranyl acetate	Dermal Inhalation Oral				17,75 mg/kg bw/day 15,4 mg/m ³ 8,9 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2,9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
2,6-Dimethyloct-7-en-2-ol	Water Sediment Intermittent Water STP Soil Oral	0.0278 mg/l 0.594 mg/kg	0.0027 mg/l 0.0594 mg/kg	0.278 mg/l 10 mg/l 0.103 mg/kg 111 mg/kg food
Linalyl acetate	Water Sediment	0,011 mg/l 0,609 mg/kg	0,011 mg/l 0,609 mg/kg	



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	Intermittent water STP Soil			0,11 mg/l 10 mg/l 0,115 mg/kg
1,4-Dioxacycloheptadecane- 5,17-dione	Water Sediment Intermittent water STP Soil Oral	0,00187 mg/l 1,26 mg/kg	0,000187 mg/l 0,13 mg/kg	0,0187 mg/l 124 mg/l 0,25 mg/kg 33,3 mg/kg food
d-Limonene	Water Sediment STP Soil Oral	0,0054 mg/l 1,32 mg/kg	3,0005 mg/l 0,13 mg/kg	1,8 mg/l 0,232 mg/kg 3,33 mg/kg food
Hexyl salicylate	Water Sediment STP Soil Oral	0.000357 mg/l 0.272 mg/kg	0.0001 mg/l 0.0272 mg/kg	0.0036 mg/l 10 mg/l 0.0542 mg/kg
Alpha Hexylcinnamaldehyde	Water Sediment Intermittent water STP Soil Oral	0,03 mg/l 47,7 mg/kg	0,003 mg/l 4,77 mg/kg	0,03 mg/l 10 mg/l 9,51 mg/l 6,6 mg/kg/food
2-Ethyl-4-(2,2,3-trimethyl-3- cyclopenten- 1-yl)-2-buten-1-ol	Water Sediment STP Soil Oral	0.00063 mg/l 0.044 mg/kg	0.000063 mg/l 0.0044 mg/kg	1 mg/l 0.0084 mg/l 1 mg/kg food
2-(4-tert-butylbenzyl) propionaldehyde	Water Sediment Intermittent water STP Soil	0.0020 mg/l 0.0584 mg/kg	0.0002 mg/l 0.0058 mg/kg	0.0204 mg/l 1.049 mg/l 0.0463 mg/kg
Pin-2(10)-ene	Water Sediment STP Soil Oral	2 mg/l 0.485 mg/kg	0,2 mg/l 0,048 mg/kg	3.26 mg/l 0.49 mg/kg 1.35 mg/kg food
Geranyl Acetate	Water Sediment Intermittent Water STP Soil	0,00372 ,g/l 0,442 mg/kg	0,000372 mg/l 0,442 mg/kg	0,0372 mg/ 8 mg/l 0,0859 mg/kg

Exposure controls

Engineering measures:

Hygienic measures:

Comply with standard precautionary measures for working with chemicals.

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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

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 known.
Vapour pressure (20°C):	360000 Pa
Vapour density (20°C):	> 1 (air = 1)
Relative density (20°C):	0,647 g/ml
Evaporation rate:	Not known (n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:	See sub-sections below.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No other hazardous reactions known.
Conditions to avoid:	Keep away from sources of ignition and sources of heat. See section 7.
Incompatible materials:	Not applicable.
Hazardous decomposition products:	Not known.

11. TOXICOLOGICAL INFORMATION

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: 5 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
Corrosion/irritation:	May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
Sensitisation:	Not classified - based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified - based on available data, the classification criteria are not met.
Mutagenicity:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity:	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. 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:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation:	Irritant.
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Ingestion

Acute toxicity:

Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1163 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation:

Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity:

Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity:

Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	----	Rat
	LD50 (oral)	4396 mg/kg bw	----	Rat
	LD50 (dermal)	12800 mg/kg bw	----	Rat
	LC50 (inhalation)	46600 mg/m ³	----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m ³	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity, inh)	12500 mg/m ³		Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
2,6-Dimethyloct-7-en-2-ol	NOAEL (Development) estimate	1000 mg/l	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	NOAEL (oral) - estimate	500 mg/kg bw/d	Read across	Rat
	LD50 (oral)	3600 mg/kg bw	----	Rat
	Skin sensitisation	Not sensitizing		
	Skin irritation	Slightly irritant	----	Rabbit
	Eye irritation	Moderately irritant	OECD 405	Rabbit
Linalyl acetate	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	LD50 (oral)	13934 mg/kg bw	----	Rat
	LC50 (inhalation)	> 2740 mg/m ³	----	Mouse
	Skin irritation	Non-irritant	----	Human
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (oral)	160 mg/kg bw/d	OECD 407	Rat
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat
		1000 mg/kg bw/d	OECD 414	Rat
d-Limonene	NOEL (carcinogenicity) - estimate.	Not carcinogenic		
	NOEL (carcinogenicity, oral)	>75 mg/kg bw/d	OECD 451	Rat
	LC50 (inhalation) - estimate	>5000 mg/m ³	-	-
	Genotoxicity - in vivo	>1000 mg/kg bw/d		Rat



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	Eye Irritation Mutagenicity Skin sensitisation NOAEL (Development) Oral Skin irritation NOAEL (oral) NOEL (oral) LD50 (dermal) LD50 (oral) Genotoxicity - in vivo	Non-irritant Negative 10075 ug/cm ² 600 mg/kg bw/d Irritant 30 mg/kg bw/d >5 mg/kg bw/d >2000 mg/kg bw 4400 mg/kg bw Not genotoxic	OECD 405 OECD 471 OECD 429 - - - -	Rabbit Mouse Rat - Rat Rat Rabbit Rat
Hexyl salicylate	NOAEL (fertility) -estimate NOAEL (development) -estimate Genotoxicity - in vivo Genotoxicity - in vitro Mutagenicity NOAEL (oral) - estimate LD50 (oral) Eye irritation LD50 (dermal) Skin irritation	Not reprotoxic Not teratogenic Not genotoxic Not genotoxic Negative 50 mg/kg bw/d > 5000 mg/kg bw Non-irritant > 5000 mg/kg bw Irritant	Read across Read across ----- OECD 476 OECD 471 Read across -----	Mouse Chinese Hamster Salmonella typhimurium Rat Rabbit Rabbit Rabbit
Alpha-Hexyl cinnamaldehyde	Genotoxicity – in vivo Genotoxicity - in vitro NOAEL (oral) – estimate LD50 (dermal) LC50 (inhalation) LD50 (oral) Mutagenicity Skin sensitisation Skin irritation NOAEL (development, oral) Eye irritation NOAEL (Dermal)	Not genotoxic Not genotoxic 30 mg/kg bw/d >30000 mg/kg bw >5000 mg/ m ³ >2450 mg/kg bw Negative 2372 ug/cm ² Moderately irritant 100 mg/kg bw/d Non-irritant 25 mg/kg bw/d	OECD 474 OECD 476 Read Across OECD 402 OECD 403 OECD 401 OECD 471 OECD 429 OECD 404 OECD 421	Rat Rabbit Rat Rat Salmonella typhimurium Mouse Rabbit Rat Rabbit Rat
2-(4-tert-butylbenzyl) propionaldehyde	Mutagenicity Skin sensitisation LD50 (oral) LD50 (dermal) Skin irritation Eye irritation NOAEL (oral) Genotoxicity - in vivo NOAEL (fertility, oral) NOAEL (development,oral)	Negative 2372 ug/cm ² 1390 mg/kg bw > 5000 mg/kg bw Irritant Non-irritant 25 mg/kg bw/d Negative 25 mg/kg bw/d 4 mg/kg bw/d	OECD 471 OECD 429 ----- OECD 404 ----- OECD 474 OECD 414	----- Mouse Rat Rabbit Rabbit Rabbit Rat Mouse Rat Rat
Pin-2(10)-ene Skin irritation	Irritant		-----	-----
4-(4-Hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	Skin sensitisation Eye irritation LD50 (dermal) LD50 (oral) Skin irritation Skin irritation	4275 ug/cm ² Mildly irritant > 5000 mg/kg bw > 5000 mg/kg bw Non-irritant Irritant	OECD 429 ----- ----- ----- Patch test -----	Mouse Rabbit Rabbit Rat Human Rabbit
Geranyl Acetate	Mutagenicity LD50 (oral) LD50 (dermal) Skin Irritation NOAEL (dermal) estimate NOEL (Carcinogenicity) estimate	Negative 6330 mg/kg bw >5460 mg/kg bw Severely irritant 10000 mg/kg bw/d >2000 mg/kg.d	OECD 471 - - Read across Read across	- Rat Rabbit Rabbit Mouse Rat

12. ECOLOGICAL INFORMATION

Toxicity: No ecotoxicological research has been carried out on this product.

Ecotoxicity: Harmful to aquatic organisms. Calculated LC50 (fish): 53 mg/l. Calculated EC50 (waterflea): 32 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment.

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

Bioaccumulative potential: Contains bioaccumulating substances.

Mobility in soil: Not applicable.

Results of PBT and vPvB ass.: Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

Other adverse effects: Not applicable.



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Ecological Information

Chemical Name	Property	Result	Method	Test Animal
1-4 Dioxacycloheptadecane-5,17-dione	LC50 (fish) Ultimate aerobic biodegradation (%) NOEC (algae) IC50 (algae) EC50 (water flea) Log P(ow) BCF	2,13 mg/l > 60 % 3,48 mg/l 14,58 mg/l 8,09 mg/l 4,3 319,3	OECD 203 OECD 301B ----- ----- -----	Brachydanio rerio Desmodesmus subspicatus Desmodesmus subspicatus Daphnia magna
d-Limonene	LC50 (fish) EC50 (water flea) Ultimate aerobic biodegradation (%) NOEC (water flea) -chronic Log P(ow) BCF	0,720 mg/l 0,36 mg/l, > 92 % 0,15 mg/l.d 4,38 683	OECD 203 OECD 202	Pimephales promelas Daphnia magna Daphnia magna
Hexyl salicylate	EC50 (water flea) IC50 (algae) Ultimate aerobic biodegradation (%) LC50 (fish) - estimate Log P(ow)	0,357 mg/l 0,28 mg/l 91 % 1,34 mg/l 5,5000	OECD 202 OECD 201 OECD 301 F -----	Daphnia magna Desmodesmus subspicatus Brachydanio rerio
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	LC50 (fish) EC50 (water flea) IC50 (algae) Ultimate aerobic biodegradation (%) Log P(ow)	1,1 mg/l 0,63 mg/l 2,5 mg/l 0 % 4,44	----- OECD 202	Lepomis macrochirus Daphnia magna Pseudokirchneriella subcapitata OECD 301 F
2-(4-tert-butylbenzyl)propionaldehyde	LC50 (fish) EC50 (waterflea) Ultimate aerobic biodegradation (%) EC0 (water flea) EC100 (water flea) Log P(ow) BCF	2,2 mg/l 10,7 mg/l 68 % 6,25 mg/l 25 mg/l 4,3000 274	OECD 203 OECD 301 F	Brachydanio rerio Daphnia magna Daphnia magna Daphnia magna
4-(4-Hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	Ultimate aerobic biodegradation (%) Log P(ow)	66 % 2,1		
Ethyl 2-naphthyl ether	Log P(ow)	3,90		

13. DISPOSAL CONSIDERATIONS

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:

European waste catalogue:

Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. 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.

14. TRANSPORT INFORMATION

UN number: UN 1950

UN proper shipping name: Transport name : AEROSOLS

ADR/RID/ADN (road / railway/inland waterways)

Transport Hazard Class: 2

Classification code : 5F

Packaging group : -

Danger label: 2,1



Other information:

Not intended for carriage by inland waterways in tank-vessels.



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IMDG (sea)

Transport Hazard Class: 2
Packaging group : -
EmS (fire / spill): F - D / S - U
Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.
In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information: The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.
Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.
Changed or new information with regard to the previous release is indicated with an asterisk (*).

SDS Revision Date: 8th April 2015

Full text of R-phrases mentioned in section 3:

- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R65 Harmful; may cause lung damage if swallowed.
- R67 Vapours may cause drowsiness and dizziness.

Full text of H-phrases mentioned in section 3:

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.



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H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
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 H-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.
Repr 2	Reproductive toxicity, category 2.
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 — Chronic category 1.

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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labelling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code
IMDG : International Maritime Dangerous Goods Code
LD50/LC50 : Lethal Dose/Concentration for 50% of a population
MAC : Maximum Allowable Concentration
MARPOL : International Convention for the Prevention of Pollution From Ships
NO(A)EL : No Observed (Adverse) Effect Level
OECD : Organisation for Economic Co-operation and Development
PBT : Persistent, Bioaccumulative and Toxic
PC : Chemical product category
PT : Product type
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STP : Sewage Treatment Plant
SU : Sector of Use
TWA/STEL : Time-Weighted Average/Short Term Exposure Limit
UN : United Nations
VOC : Volatile Organic Compounds
vPvB : Very Persistent and Very Bioaccumulative

End of Safety Data Sheet.



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SAFETY DATA SHEET

AIROMA, EXOTIC GARDEN

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

Product name: Airoma, Exotic Garden
Product Code: BAERO-07; 1252252; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.
Relevant identified uses of the substance or mixture and uses advised against
Application: SU22 Professional use. For industrial or institutional use. PC3 Air-freshener.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable.

CLP classification (1272/2008/EC): Aerosols, category 1

Human health hazards: 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.
May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases:

R12 Extremely flammable.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition — No smoking.
S23 Aerosol Do not breathe spray.
S51 Use only in well-ventilated areas.

Additional labelling:

Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word:

Danger

H- and P-phrases:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
P251 Do not pierce or burn, even after use.



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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P280 Wear protective gloves
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (99/45/EC and/or 1272/2008/EC)

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text: Contains: Contains: Propan-2-ol ; Piperonal ; Cis-4-(isopropyl)cyclohexanemethanol ; Pentadecan-15-olide ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; Coumarin ; Butylphenyl methylpropional ; alpha-Hexylcinnamaldehyde ; 3-p-Cumenyl-2-methylpropionaldehyde ; Balsams, Peru .

: 6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances in concentrations higher than 0,1%. 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Substance	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Isobutane	25-50	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propane	10-<20	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propylene Glycol	5-<10	57-55-56	200-338-0	-	-	01-2119456809-23	-	-	-
2-Phenylethanol	1-<5	60-12-8	200-456-2	Xn	22, 36	01-2119963921-31	Acute Tox 4 Eye Irrit 2	GHS07	H302 H319
Butane	0.1 -<1	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Tetrahydro-3-pentyl-2H-pyran-4-yl acetate	0.1 -< 1	18871-14-2	242-640-5	-----	52/53		Aquatic Chronic 3		H412
1,4-Dioxacycloheptadecane-5,17-dione	0.1 -< 1	105-95-3	203-347-8	N	51/53	01-2119976314-33	Aquatic Chronic 2	GHS09	H411
Piperonal 0,1 - < 1	0.1 -< 1	120-57-0	204-409-7	Xi	43	01-2119983608-21	Skin Sens 1	GHS07	H317
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	0.1 -< 1	68155-66-8	268-978-3	N	51/53		Aquatic Chronic 2	GHS09	H411
Cis-4-(isopropyl)cyclohexanemethanol	0.1 -< 1	13828-37-0	237-539-8	Xi; N	43-51/53		Skin Sens 1B	GHS07	H317
Benzyl benzoate	< 0.1	120-51-4	204-402-9	Xn; N	22-51/53		Acute Tox 4 Aquatic Chronic 2	GHS07 GHS09	H302 H411
Pentadecan-15-olide	< 0.1	106-02-5	203-354-6	Xi	43	01-2119987323-31	Skin Sens 1B Aquatic Chronic 2	GHS07 GHS09	H317 H411
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	< 0.1	1205-17-0	214-881-6	Xi; N	43-51/53		Skins Sens 1 Aquatic Chronic 2	GHS07 GHS09	H317 H411
Coumarin	< 0.1	94-64-5	202-086-7	Xn	22-43	01-2119949300-45	Acute Tox 4 Skin Sens1B	GHS07	H302 H317 H373
2-(4-tert-butylbenzyl)propionaldehyde	< 0.1	80-54-6	201-289-8	Xn; N	22-38-43-51/53-62	01-2119485965-18	Aquatic Chronic 2 Skin Irrit 2 Skin Sens 1 Acute Tox 4 Repr 2	GHS07 GHS08 GHS09	H302 H315 H317 H411 H361f
alpha-Hexylcinnamaldehyde	< 0.1	101-86-0	202-983-3	Xi	38-43	01-2119533092-5	Skin Sens 1B	GHS07	H317
3-p-Cumenyl-2-methylpropionaldehyde	< 0.1	103-95-7	203-161-7	Xn; N	38-43-51/53	01-2119970582-32	Skin Irrit 2 Skin Sens 1 Aquatic Chronic 2	GHS07	H315 H317
Balsams, Peru < 0,1	< 0.1	8007-00-9	232-352-8	Xi	43		Skin Sens 1	GHS07	H317



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Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Not applicable under normal conditions of use. 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 persists.
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.

Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation: No specific effects and/or symptoms are known..
Skin contact: May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
Eye contact: Irritant. May cause redness and pain.
Ingestion: Aerosol/mist: Ingestion is unlikely to occur.

Indication of any immediate medical attention and special treatment needed

Note to physicians: None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable: Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.
Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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.

Reference to other sections

Reference to other sections: See also section 8.

7. HANDLING AND STORAGE

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. Do not breathe spray. Avoid contact with skin and eyes.



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.

Specific end use(s)

Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m ³	2400 mg/m ³	
Ethanol	GB	1920 mg/m ³		
Ethanol		260 mg/m ³	1900 mg/m ³	Mac: NL
Propane		1800 mg/m ³		
Propan-2-ol	GB	999 mg/m ³	1250 mg/m ³	
Propylene glycol	GB	474 mg/m ³		Total Vapour and Particulates
Propylene glycol		474 mg/m ³		MAC UK: Total Vapour and Particulates
Butane	GB	1450 mg/m ³	1810 mg/m ³	
Butane		1450 mg/m ³	1810 mg/m ³	

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 Inhalation	1900 mg/m ³			343 mg/kg bw/day 950 mg/m ³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m ³
Propylene glycol	Inhalation			10 mg/m ³	168 mg/m ³
2-Phenylethanol	Dermal Inhalation				21.2 mg/kg bw/day 59.5 mg/m ³
Piperonal	Dermal Inhalation				0.5 mg/kg bw/day 3.5 mg/m ³
Coumarin	Dermal Inhalation				0.79 mg/kg bw/day 5.52 mg/m ³
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation	0.41 mg/kg bw 0.29 mg/m ³	20 mg/kg bw 0.29 mg/m ³	0.048 mg/m ³	3.33 mg/kg bw/day 0.048 mg/m ³
alpha-Hexylcinnamaldehyde	Dermal Inhalation	0.525 mg/kg bw 6.28 mg/m ³		0.525 mg/kg bw/day	18.2 mg/kg bw/day 0.078 mg/m ³
3-p-Cumenyl-2- methylpropionaldehyde	Dermal Inhalation				1.67 mg/kg bw/day 5.83 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
2-Phenylethanol	Dermal Inhalation Oral		5.1 mg/kg bw		12.7 mg/kg bw/day 17.7 mg/m ³ 5.1 mg/kg bw/day
Piperonal	Dermal Inhalation Oral				0.25 mg/kg bw/day 0.87 mg/m ³ 0.25 mg/kg bw/day
Coumarin	Dermal Inhalation Oral				0.39 mg/kg bw/day 1.38 mg/m ³ 0.39 mg/kg bw/day



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Chemical Name	Route of Exposure	DNEL Short Term		DNEL Long Term	
		Local Effect	Systemic Effect	Local Effect	Systemic Effect
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation Oral	0.41 mg/kg bw 0.07 mg/m ³	20 mg/kg bw 0.07 mg/m ³ 0.041 mg/kg/bw	0.012 mg/m ³	1.67 mg/kg bw/day 0.012 0.07 mg/m ³ 0.007 mg/kg bw/day
alpha-Hexyl cinnamaldehyde	Dermal Inhalation Oral	0.0787 mg/kg bw 4.71 mg/m ³		0.0787 mg/kg bw/day	9.11 mg/kg bw/day 0.019 mg/m ³ 0.056 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Dermal Inhalation Oral				0.83 mg/kg bw/day 1.45 mg/m ³ 0.83 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2.9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
2-Phenylethanol	Water Sediment Intermittent Water STP Soil	0.215 mg/l 1.454 mg/kg	0.0215 mg/l 0.1454 mg/kg	2.15 mg/l 10 mg/l 0.164 mg/kg
1,4-Dioxacycloheptadecane-5,17-dione	Water Sediment Intermittent Water STP Soil Oral	0.00187 mg/l 1.26 mg/kg	0.000187 mg/l 0.13 mg/kg	0.0187 mg/l 124 mg/l 0.25 mg/kg 33.3 mg/kg food
Piperonal 0,1 - < 1	Water Sediment Intermittent Water STP Soil	0.0025 mg/l 0.0119 mg/kg	0.00025 mg/l 0.0012 mg/kg	0.025 mg/l 10 mg/l 0.00084 mg/kg
Pentadecan-15-olide	Water Sediment STP Soil	0.0027 mg/l 21 mg/kg	0.00027 mg/l 4.2 mg/kg	10 mg/l 10 mg/kg
Coumarin	Water Sediment Intermittent Water STP Soil Oral	0,019mg/l 0.15 mg/kg	0,0019 mg/l 0.015 mg/kg	0.014 mg/l 6.4 mg/l 0.018 mg/l 30.7 mg/kg/food
2-(4-tert-butylbenzyl)propionaldehyde	Water Sediment Intermittent Water STP Soil	0.0020 mg/l 0.0584 mg/kg	0.0002 mg/l 0.0058 mg/kg	0.0204 mg/l 1.049 mg/l 0.0463 mg/kg
alpha-Hexyl cinnamaldehyde	Water Sediment Intermittent Water STP	0.03 mg/l 47.7mg/kg	0.003 mg/l 4.77 mg/kg	0.03 mg/l 10 mg/l



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Chemical Name	Route of Exposure	Fresh Water	Marine Water	
alpha-Hexyl cinnamaldehyde (continued)	Soil Oral			9.51 mg/kg 6.6 mg/kg/food
3-p-Cumenyl-2-methylpropionaldehyde	Water Sediment Intermittent Water STP Soil	0.00109 mg/l 0.126 mg/kg	0.00011 mg/l 0.0126 mg/kg	0.01092 mg/l 1 mg/l 0.0245 mg/kg

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 clothing is not required under normal conditions of use.

Respiratory protection:

Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection:

Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitrile. ± 0,5 mm Indication of permeation breakthrough time: 4 hours

Eye protection:

Wear appropriate safety glasses when there is danger of possible eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Aerosol.

Colour:

Colourless.

Odour :

Perfumed.

Odour threshold:

Not known.

pH:

Not applicable. Almost water free 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 (%): 1.4 (2 phenylethanol)
Upper explosion limit in air (%): 19 (Ethanol)

Oxidising properties:

Not applicable. Does not contain oxidizing substances.

Decomposition temperature:

Not applicable.

Viscosity (20°C):

Not known.

Viscosity (40°C):

Not known.

Vapour pressure (20°C):

350000 Pa

Vapour density (20°C):

> 1 (air = 1)

Relative density (20°C):

0.637 g/ml

Evaporation rate:

Not known (n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:

See sub-sections below.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

No other hazardous reactions known.

Conditions to avoid:

Keep away from sources of ignition and sources of heat. See section 7.

Incompatible materials:

Not applicable.

Hazardous decomposition products:

: Not known.



11. TOXICOLOGICAL INFORMATION

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: 6 %. 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, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Corrosion/irritation: May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met

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

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

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 2 %. 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: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation: Irritant.

Ingestion

Acute toxicity: Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1041 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation: Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity: Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity: Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	----	Rat
	LD50 (oral)	4396 mg/kg bw	----	Rat
	LD50 (dermal)	12800 mg/kg bw	----	Rat
	LC50 (inhalation)	46600 mg/m ³	----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat



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Propan-2-ol (continued)	NOEL (carcinogenicity, oral) Skin sensitisation Mutagenicity NOAEL (inhalation) Genotoxicity - in vivo NOEL (carcinogenicity, inh.) Genotoxicity - in vitro	Not carcinogenic Not sensitizing Negative 12500 mg/m ³ Not genotoxic 12500 mg/m ³ Not genotoxic	OECD 416 OECD 406 OECD 471 OECD 451 OECD 474 OECD 476	Rat Guinea pig Rat Mouse Mouse
2-Phenylethanol	Mutagenicity NOAEL (developmental toxicity, dermal) Skin sensitisation – Estimate LD50 (dermal) Skin irritation Eye irritation NOAEL (development, oral) Genotoxicity - in vitro NOAEL (dermal) LD50 (oral)	Negative 140 mg/kg bw/d Not sensitising 2535 mg/kg bw Slightly irritant Irritant 4.3 mg/kg bw/d Not genotoxic 510 mg/kg bw/d 1609 mg/kg bw	OECD 471 OECD 402 - - OECD 476 OECD 411 -	Salmonella typhimurium Rat Rabbit Rabbit Rabbit Rat Rat Rat
Piperonal	Mutagenicity NOAEL (development, oral) NOAEL (fertility, oral) Genotoxicity – in vivo Genotoxicity - in vitro NOEL (carcinogenicity, oral) Eye irritation Skin irritation Skin sensitisation NOAEL (oral) LD50 (dermal) LD50 (oral)	Negative 250 mg/kg bw/d 250 mg/kg bw/d Not genotoxic Not genotoxic 250 mg/kg bw/d Non irritant Slightly irritant Sensitising 500 mg/kg bw/d >5000 mg/kg bw 2700 mg/kg bw	OECD 471 OECD 421 OECD 478 OECD 478 OECD 473 OECD 453 OECD 405 - - OECD 408 OECD 402 OECD 401	Salmonella typhimurium Rat Rat Mouse Chinese hamster Rat Rabbit Guinea pig Guinea pig Rat Rat Rat

12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product.
Ecotoxicity:	Harmful to aquatic life with long lasting effects. Calculated LC50 (fish): 130 mg/l. Calculated EC50 (water flea): 163 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment.
Persistence and degradability:	May cause long term adverse effects in the aquatic environment.
Bioaccumulative potential:	Contains bioaccumulating substances.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
1-4 Dioxacycloheptadecane-5,17-dione	Ultimate aerobic biodegradation (%) NOEC (algae) IC50 (algae) EC50 (water flea) LC50 (fish) Log P(ow) BCF	> 60 % 3,48 mg/l 14,58 mg/l 8,09 mg/l 2,13 mg/l 2,9 319,3	OECD 301 B ----- ----- ----- -----	Desmodesmus subspicatus Desmodesmus subspicatus Daphnia magna Brachydanio rerio
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Log P(ow)	4,7000		

13. DISPOSAL CONSIDERATIONS

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.
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Additional warning:
European waste catalogue:

Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. 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.

14. TRANSPORT INFORMATION

UN number: UN 1950
UN proper shipping name: Transport name : AEROSOLS

ADR/RID (road / railway)

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



IMDG (sea)

Transport Hazard Class: 2
Packaging group : -
EmS (fire / spill): F - D / S - U
Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.
In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information:

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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

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

Full text of R-phrases mentioned in section 3:

R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.



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- R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R67 Vapours may cause drowsiness and dizziness.

**Full text of H-phrases
mentioned in section 3:**

- H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Number format : ".", used as decimal separator.

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

- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE Acute Toxicity Estimate
CLP Classification, Labelling & Packaging
CMR Carcinogenic, Mutagenic or toxic for Reproduction
EEC European Economic Community
IATA International Air Transport Association
IBC code International Bulk Chemical Code
IMDG International Maritime Dangerous Goods Code
LD50/LC50 Lethal Dose/Concentration for 50% of a population
MAC Maximum Allowable Concentration
MARPOL International Convention for the Prevention of Pollution From Ships
NO(A)EL No Observed (Adverse) Effect Level
OECD Organisation for Economic Co-operation and Development
PBT Persistent, Bioaccumulative and Toxic
PC Chemical product category
PT Product type
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
STP Sewage Treatment Plant
SU Sector of Use
TWA/STEL Time-Weighted Average/Short Term Exposure Limit
UN United Nations
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative

History:

Date of issue : 29th October 2014

End of Safety Data Sheet.



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SAFETY DATA SHEET

AIROMA, FLORAL SILK

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

Product name: Airoma, Floral Silk
Product Code: BAERO-08; 1252253; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable. Dangerous for the environment.

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.

Human health hazards: May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases:
R12 Extremely flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S2 Keep out of the reach of children.
S16 Keep away from sources of ignition — No smoking.
S23 Aerosol Do not breathe spray.
S51 Use only in well-ventilated areas.

Additional labelling: Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word: Danger

H- and P-phrases:
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.



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- P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P280 gloves Wear protective gloves.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (99/45/EC and/or 1272/2008/EC):

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text: Contains: Propan-2-ol ; (Z)-3-hexenyl salicylate ; 3-p-Cumenyl-2-methylpropionaldehyde ; 3,7-Dimethylocta-1,6-diene ; Eugenol ; Phenol, 2-methoxy-, reaction products with 2,2-dimethyl-3-methylenebicyclo[2.2.1]heptane, hydrogenated ; Geraniol .
: 6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). 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. Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Information on Hazardous Substances

Substance Name	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Propane	10-<20	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Isobutane	25-50	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Geraniol	<0.1	106-24-1	203-377-1	Xi	38-41-43	01-2119552430-49	Skin Sens 1 Eye Dam 1 Skin Irrit 2	GHS05 GHS07	H317 H318 H315
Phenol, 2-methoxy-, reaction products with 2,2-dimethyl-3-methylenebicyclo[2.2.1] heptane, hydrogenated	<0.1	70955-71-4	275-062-7	Xi	43		Skin Sens 1	GHS07	H317
Eugenol	<0.1	97-53-0	202-589-1	Xi	36-43		Eye Irrit 1 Skin Sens 1	GHS07	H319 H317
3,7-Dimethylocta-1,6-diene	<0.1	2436-90-0	219-433-3	Xi	10-38-43-65		Flam Liq 3 Asp Tox 1 Skin Irrit 2 Skin Sens 1	GHS02 GHS07 GHS08	H226 H304 H315 H317
3-p-Cumenyl-2-methylpropionaldehyde	<0.1	103-95-7	203-161-7	Xn; N	38-43-51/53	01-2119970582-32	Skin Irrit 2 Skin Sens 1 Aquatic Chronic 2	GHS07	H315 H317
Undecan-4-olide	0.1-<1	104-67-6	203-225-4	N	51/53	01-2119959333-34	Aquatic Chronic 2	GHS09	H411
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	0.1-<1	14901-07-6	238-969-9	N	51/53	01-2119937833-30	Aquatic Chronic 2	GHS09	H411
Geranyl acetate	0.1-<1	105-87-3	203-341-5	Xi; N	38-43-51/53	01-2119973480-35	Aquatic Chronic 3	GHS09	H411
3,7-Dimethyloctan-3-ol	0.1-<1	78-69-3	201-133-9	Xi; N	38-51/53	01-2119454788-21	Eye Irrit 2 Skin Irrit 2	GHS07	H315 H319
Isobutyl salicylate	0.1-<1	87-19-4	201-729-9	Xn	22		Acute Tox 4	GHS07	H302
Benzyl acetate	0.1-<1	140-11-4	205-399-7	-	-	01-2119638272-42	Aquatic Chronic 3		H412
Naphtha (petroleum), hydrotreated heavy	0.1-<1	64742-48-9	265-150-3	Xn	65-66		Asp Tox 1	GHS08	H304 EUH066
(Z)-3-hexenyl salicylate	0.1-<1	65405-77-8	265-745-8	Xi; N	43-50/53	01-2119987320-37	Skin Sens 1 Aquatic Chronic 2	GHS07 GHS09	H317 H410
A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol; trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	0.1-<1	63500-71-0	405-040-6	Xi	36	01-0000015458-64	Eye Irrit 2	GHS07	H319
2-Phenylethanol	0.1-<1	60-12-8	200-456-2	Xn	22-36	01-2119963921-31	Acute Tox 4 Eye Irrit 2	GHS07	H302 H319



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Substance Name	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Linalyl acetate	0.1-<1	115-95-7	204-116-4	Xi	38	01-2119454789-19	Skin Irrit 2 Eye Irrit 2	GHS07	H315 H319
Butane	0.1-<1	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
2,6-Dimethyloct-7-en-2-ol	1-<5	18479-58-8	242-362-4	Xi	38	01-2119457274-37	Skin Irrit 2 Eye Irrit 2	GHS07	H315 H319
Propyleneglycol	5-<10	57-55-6	200-338-0	-	-	01-2119456809-23	-	-	-
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11-36-67		Flam Liq 2 Eye Irrit 2 STOT SE3	GHS02 GHS07	H225 H319 H336

Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Not applicable under normal conditions of use. 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 persists.
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.

Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation: No specific effects and/or symptoms are known.
Skin contact: May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
Eye contact: Irritant – may cause redness and pain.
Ingestion: Aerosol/mist: Ingestion is unlikely to occur.

Indication of any immediate medical attention and special treatment needed

Note to physicians: None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable: Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.
Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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.

Reference to other sections

Reference to other sections: See also section 8.



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7. HANDLING AND STORAGE

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. Do not breathe spray. Avoid contact with skin and eyes.

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.

Specific end use(s)

Use:

Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Propane		1800 mg/m ³		
Ethanol	GB	1920 mg/m ³		
Ethanol		260 mg/m ³	1900 mg/m ³	MAC: NL
Isobutane		1900 mg/m ³	2400 mg/m ³	
Benzyl Acetate		5 mg/m ³		
Naphtha (petroleum), hydrotreated heavy	EC	116 mg/m ³		Recommendation in CLH document 2010
Naphtha (petroleum), hydrotreated heavy		1200 mg/m ³		CEFIC HSPA
Butane	GB	1450 mg/m ³	1810 mg/m ³	
Butane		1450 mg/m ³	1810 mg/m ³	
Propylene glycol	GB	474 mg/m ³		Total Vapour and Particulates
Propylene glycol		474 mg/m ³		MAC UK: Total Vapour and Particulates
Propan-2-ol	GB	999 mg/m ³	1250 mg/m ³	

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 Inhalation	1900 mg/m ³			343 mg/kg bw/day 950 mg/m ³
Geraniol	Dermal Inhalation				12.5 mg/kg bw/day 161.6 mg/m ³
3-p-Cumenyl-2-methylpropionaldehyde	Dermal Inhalation				1.67 mg/kg bw/day 5.83 mg/m ³
Undecan-4-olide	Dermal Inhalation				5.38 mg/kg bw/day 19 mg/m ³
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Dermal Inhalation				2.1913 mg/kg bw/day 2.498 mg/m ³
3,7-Dimethyloctan-3-ol	Dermal Inhalation				2.5 mg/kg bw/day 2.75 mg/m ³
Benzyl acetate	Dermal Inhalation		12.5 mg/kg bw 43.8 mg/m ³		6.25 mg/kg bw/day 21.9 mg/m ³
(Z)-3-hexenyl salicylate	Dermal Inhalation				0.9 mg/kg bw/day 1.59 mg/m ³
2-Phenylethanol	Dermal Inhalation				21.2 mg/kg bw/day 59.9 mg/m ³
Linalyl acetate	Dermal Inhalation	0.8 mg/kg bw			2.5 mg/kg bw/day 2.75 mg/m ³
2,6-Dimethyloct-7-en-2-ol	Dermal Inhalation				20.8 mg/kg bw/day 73.5 mg/m ³
Propyleneglycol	Dermal Inhalation			10 mg/m ³	168 mg/m ³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Geraniol	Dermal Inhalation Oral				75 mg/kg bw/day 47.8 mg/m ³ 13.75 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Dermal Inhalation Oral				0.83 mg/kg bw/day 1.45 mg/m ³ 0.83 mg/kg bw/day
Undecan-4-olide	Dermal Inhalation Oral				2.7 mg/kg bw/day 4.38 mg/m ³ 2.7 mg/kg bw/day
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Dermal Inhalation Oral				0.5043 mg/kg bw/day 0.6214 mg/m ³ 4.3825 mg/kg bw/day
3,7-Dimethyloctan-3-ol	Dermal Inhalation Oral				1.25 mg/kg bw/day 0.68 mg/m ³ 0.2 mg/kg bw/day
Benzyl acetate	Dermal Inhalation Oral		6.25 mg/kg bw 11 mg/m ³ 6.25 mg/kg bw		3.125 mg/kg bw/day 5.5 mg/m ³ 3.125 mg/kg bw/day
(Z)-3-hexenyl salicylate	Dermal Inhalation Oral				0.45 mg/kg bw/day 0.39 mg/m ³ 0.23 mg/kg bw/day
2-Phenylethanol	Dermal Inhalation Oral		5.1 mg/kg bw		12.7 mg/kg bw/day 17.7 mg/m ³ 5.1 mg/kg bw/day
Linalyl acetate	Dermal Inhalation Oral	0,8 mg/kg bw		0,8 mg/kg bw/day	1.25 mg/kg bw/day 0.68 mg/m ³ 0.2 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal Inhalation Oral				12.5 mg/kg bw/day 21.7 mg/m ³ 12.5 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2,9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Geraniol	Water Sediment Intermittent Water STP Soil	0.0108 mg/l 0.115 mg/kg	0.0010 mg/l 0.0115 mg/kg	0.108 mg/l 0.7 mg/l 0.0167 mg/kg
3-p-Cumenyl-2-methylpropionaldehyde	Water Sediment Intermittent Water STP Soil	0.00109 mg/l 0.126 mg/kg	0.00011 mg/l 0.0126 mg/kg	0.01092 mg/l 1 mg/l 0.0245 mg/kg
Undecan-4-olide	Water Sediment Intermittent Water STP Soil Oral	0.0058 mg/l 0.628 mg/kg	0.000.58 mg/l 0.063 mg/kg	0.058 mg/l 80 mg/l 0.122 mg/kg 66.7 mg/kg food



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Chemical Name	Route of Exposure	Fresh Water	Marine Water	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Water Sediment Intermittent Water STP Soil	0.00146 mg/l 22.45 mg/kg	0.000146 mg/l 22.45 mg/kg	0.0146 mg/l 0.0428 mg/l 10.47 mg/kg
Geranyl acetate	Water Sediment Intermittent Water STP Soil	0.00372 mg/l 0.442 mg/kg	0.000372 mg/l 0.442 mg/kg	0.0372 mg/l 8 mg/l 0.0859 mg/kg
3,7-Dimethyloctan-3-ol	Water Sediment Intermittent Water STP Soil	0.0089 mg/l 0.0821 mg/kg	0.00089 mg/l 0.00821 mg/kg	0.089 mg/l 450 mg/l 0.0112 mg/kg
Benzyl Acetate	Water Sediment Intermittent Water STP Soil	0.004 mg/l 0.114 mg/kg	0.0004 mg/l 0.0114 mg/kg	0.04 mg/l 8.55 mg/l 0.0205 mg/kg
(Z)-3-hexenyl salicylate	Water Sediment Intermittent Water STP Soil Oral	0.00061 mg/l 0.11 mg/kg	0.000061 mg/l 0.011 mg/kg	0.0061 mg/l 10 mg/l 0.0217 mg/kg 40 mg/kg food
2-Phenylethanol	Water Sediment Intermittent Water STP Soil	0.215 mg/l 1.454 mg/kg	0.0215 mg/l 0.1454 mg/kg	2.15 mg/l 10 mg/l 0.164 mg/kg
Linalyl acetate	Water Sediment Intermittent Water STP Soil	0.011 mg/l 0.609 mg/kg	0.0011 mg/l 0.0609 mg/kg	0.11 mg/l 10 mg/l 0.115 mg/kg
2,6-Dimethyloct-7-en-2-ol	Water Sediment Intermittent Water STP Soil Oral	0.0278 mg/l 0.594 mg/kg	0.0027 mg/l 0.594 mg/kg	0.278 mg/l 10 mg/l 0.103 mg/kg 111 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57.2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140.9 mg/l 552 mg/kg	140.9 mg/l 552 mg/kg	140.9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food

Exposure controls

Engineering measures:

Hygienic measures:

Comply with standard precautionary measures for working with chemicals.

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.





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Body protection:	Use of specific protective clothing is not required under normal conditions of use.
Respiratory protection:	Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
Hand protection:	Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitrile. $\pm 0,5$ 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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:	$< 0^{\circ}\text{C}$
Explosive properties:	Pressurised container: May burst if heated.
Explosion limits (in air):	Not known. Lower explosion limit in air (%): 1,7 (Propane) Upper explosion limit in air (%): 19 (Ethanol)
Oxidising properties:	Not applicable. Does not contain oxidizing substances.
Decomposition temperature:	Not applicable.
Viscosity (20°C):	Not known.
Viscosity (40°C):	Not known.
Vapour pressure (20°C):	360000 Pa
Vapour density (20°C):	> 1 (air = 1)
Relative density (20°C):	0,635 g/ml
Evaporation rate:	Not known (n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:	See sub-sections below.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No other hazardous reactions known.
Conditions to avoid:	Keep away from sources of ignition and sources of heat. See section 7.
Incompatible materials:	Not applicable.
Hazardous decomposition products:	Not known.

11. TOXICOLOGICAL INFORMATION

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: 6 %. 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, light headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
Corrosion/irritation:	May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
Sensitisation:	Not classified - based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified - based on available data, the classification criteria are not met.
Mutagenicity:	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.



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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:

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:

Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation:

Irritant.

Ingestion

Acute toxicity:

Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1064 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation:

Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity:

Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity:

Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	-----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	-----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
(Z)-3-hexenyl salicylate	Genotoxicity - estimate	Not genotoxic	Read across	Guinea pig
	Skin sensitisation	Not sensitising	OECD 406	Rabbit
	LD50 (dermal)	>5000 mg/kg bw		Rabbit
	Skin irritation	Moderately irritant	-----	Rat
	NOAEL (oral)	200 mg/kg bw/d	OECD 422	Rat
2,6-Dimethyloct-7-en-2-ol	LD50 (oral)	5000 mg/kg bw		Rat
	NOAEL (development) - estimate	100 mg/kg.d	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	NOAEL (oral) - estimate	500 mg/kg bw/d	Read across	Rat
	LD50 (oral)	3600 mg/kg bw	-----	Rat
	Skin sensitisation	Not sensitising		
	Skin irritation	Slightly irritant	-----	Rabbit
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	LD50 (dermal)	>5000 mg/kg bw	-----	Rabbit
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	-----	Rat
	LD50 (oral)	4396 mg/kg bw	-----	Rat
	LD50 (dermal)	12800 mg/kg bw	-----	Rat
	LC50 (inhalation)	46600 mg/m ³	-----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m ³	OECD 451	Rat



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Propan-2-ol Continued	Genotoxicity - in vivo NOEL (carcinogenicity, inh.) Genotoxicity - in vitro	Not genotoxic 12500 mg/m ³ Not genotoxic	OECD 474 OECD 476	Mouse Mouse
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12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product.
Ecotoxicity:	Harmful to aquatic life with long lasting effects. Calculated LC50 (fish): 107 mg/l. Calculated EC50 (waterflea): 175 mg/l. Contains < 1 % of components with unknown hazards to the aquatic environment.
Persistence and degradability:	May cause long term adverse effects in the aquatic environment.
Bioaccumulative potential:	No specific information known.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
Undecan-4-olide	EC50 (waterflea) Ultimate aerobic biodegradation (%) LC50 (fish) IC50 (algae) Log P(ow)	17 mg/l 82% 569 mg/l 5394 mg/l 3.6	----- Read across ----- OECD 201	Daphnia magna Oncorhynchus mykiss Pseudokirchneriella subcapitata
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LC50 (fish) EC50 (waterflea) Log P(ow)	5.09 mg/l 1.64 mg/l 3.22 mg/l 4.1	----- ----- -----	Pimephales promelas Daphnia magna Selenastrum capricornutum
Geranyl acetate	EC50 (waterflea) LC50 (fish) (estimate) IC50 (algae) Log P(ow) BCF	14.1 mg/l 68 mg/l 3.72 mg/l 4.3 2.35	OECD 201	Daphnia magna Leuciscus idus Desmodesmus subspicatus
3,7-Dimethyloctan-3-ol	IC50 (algae) LC50 (fish) NOEC (fish) NOEC (Waterflea) acute EC50 (waterflea) Ultimate aerobic biodegradation (%) Log P(ow) BCF	21.6 mg/l 8.9 mg/l 5 mg/l 8.2 mg/l 14.2 mg/l 61% 3.3 152	DIN 38412 part 33 OECD 203 OECD 203 OECD 202 OECD 202 OECD 301F	Scenedesmus subspicatus Brachydanio rerio Brachydanio rerio Daphnia magna Daphnia magna
(Z)-3-hexenyl salicylate	LC50 (fish) (estimate) EC50 (waterflea) Ultimate aerobic biodegradation (%) IC50 (algae) Log P(ow)	1.13 mg/l 3.7 mg/l 89% 0.61 mg/l 4.57	OECD 202 OECD 301F OECD 201	Brachydanio rerio Daphnia magna Desmodesmus subspicatus

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

UN number:	UN 1950
UN proper shipping name:	Transport name : AEROSOLS
ADR/RID/ADN (road / railway)	
Transport Hazard Class:	2
Classification code :	5F



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Packaging group : -
Danger label: 2,1



IMDG (sea)

Transport Hazard Class: 2

Packaging group : -

EmS (fire / spill): F - D / S - U

Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to **Annex II of MARPOL 73/78 and the IBC Code**: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.
In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information: The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.
Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.
Changed or new information with regard to the previous release is indicated with an asterisk (*).

SDS Revision Date: 2nd April 2015

Full text of R-phrases
mentioned in section 3:

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful; may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.



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**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.
H304 May be fatal if swallowed and enters airways.
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.
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.

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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labelling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code
IMDG : International Maritime Dangerous Goods Code
LD50/LC50 : Lethal Dose/Concentration for 50% of a population
MAC : Maximum Allowable Concentration
MARPOL : International Convention for the Prevention of Pollution From Ships
NO(A)EL : No Observed (Adverse) Effect Level
OECD : Organisation for Economic Co-operation and Development
PBT : Persistent, Bioaccumulative and Toxic
PC : Chemical product category
PT : Product type
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STP : Sewage Treatment Plant
SU : Sector of Use
TWA/STEL : Time-Weighted Average/Short Term Exposure Limit
UN : United Nations
VOC : Volatile Organic Compounds
vPvB : Very Persistent and Very Bioaccumulative

End of Safety Data Sheet.



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ETY DATA SHEET

AIROMA, EXOTIC GARDEN

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

Product name: Airoma, Exotic Garden
Product Code: BAERO-07; 1252252; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.
Relevant identified uses of the substance or mixture and uses advised against
Application: SU22 Professional use. For industrial or institutional use. PC3 Air-freshener.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable.

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.

Human health hazards: May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases:

R12 Extremely flammable.

S2 Keep out of the reach of children.

S16 Keep away from sources of ignition — No smoking.

S23 Aerosol Do not breathe spray.

S51 Use only in well-ventilated areas.

Additional labelling:

Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word:

Danger

H- and P-phrases:

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

P251 Do not pierce or burn, even after use.



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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (99/45/EC and/or 1272/2008/EC)

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text: Contains: Contains: Propan-2-ol ; Piperonal ; Cis-4-(isopropyl)cyclohexanemethanol ; Pentadecan-15-olide ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; Coumarin ; Butylphenyl methylpropional ; alpha-Hexylcinnamaldehyde ; 3-p-Cumenyl-2-methylpropionaldehyde ; Balsams, Peru .

: 6 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity.

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances in concentrations higher than 0,1%. 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Substance	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Isobutane	25-50	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propane	10-<20	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propylene Glycol	5-<10	57-55-56	200-338-0	-	-	01-2119456809-23	-	-	-
2-Phenylethanol	1-<5	60-12-8	200-456-2	Xn	22, 36	01-2119963921-31	Acute Tox 4 Eye Irrit 2	GHS07	H302 H319
Butane	0.1 -<1	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Tetrahydro-3-pentyl-2H-pyran-4-yl acetate	0.1 -< 1	18871-14-2	242-640-5	-----	52/53		Aquatic Chronic 3		H412
1,4-Dioxacycloheptadecane-5,17-dione	0.1 -< 1	105-95-3	203-347-8	N	51/53	01-2119976314-33	Aquatic Chronic 2	GHS09	H411
Piperonal 0,1 -< 1	0.1 -< 1	120-57-0	204-409-7	Xi	43	01-2119983608-21	Skin Sens 1	GHS07	H317
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	0.1 -< 1	68155-66-8	268-978-3	N	51/53		Aquatic Chronic 2	GHS09	H411
Cis-4-(isopropyl)cyclohexanemethanol	0.1 -< 1	13828-37-0	237-539-8	Xi; N	43-51/53		Skin Sens 1B	GHS07	H317
Benzyl benzoate	< 0.1	120-51-4	204-402-9	Xn; N	22-51/53		Acute Tox 4 Aquatic Chronic 2	GHS07 GHS09	H302 H411
Pentadecan-15-olide	< 0.1	106-02-5	203-354-6	Xi	43	01-2119987323-31	Skin Sens 1B Aquatic Chronic 2	GHS07 GHS09	H317 H411
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	< 0.1	1205-17-0	214-881-6	Xi; N	43-51/53		Skins Sens 1 Aquatic Chronic 2	GHS07 GHS09	H317 H411
Coumarin	< 0.1	94-64-5	202-086-7	Xn	22-43	01-2119949300-45	Acute Tox 4 Skin Sens1B	GHS07	H302 H317 H373
2-(4-tert-butylbenzyl)propionaldehyde	< 0.1	80-54-6	201-289-8	Xn; N	22-38-43-51/53-62	01-2119485965-18	Aquatic Chronic 2 Skin Irrit 2 Skin Sens 1 Acute Tox 4 Repr 2	GHS07 GHS08 GHS09	H302 H315 H317 H411 H361f
alpha-Hexylcinnamaldehyde	< 0.1	101-86-0	202-983-3	Xi	38-43	01-2119533092-5	Skin Sens 1B	GHS07	H317
3-p-Cumenyl-2-methylpropionaldehyde	< 0.1	103-95-7	203-161-7	Xn; N	38-43-51/53	01-2119970582-32	Skin Irrit 2 Skin Sens 1 Aquatic Chronic 2	GHS07	H315 H317
Balsams, Peru < 0,1	< 0.1	8007-00-9	232-352-8	Xi	43		Skin Sens 1	GHS07	H317



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Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Not applicable under normal conditions of use. 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 persists.
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.

Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation: No specific effects and/or symptoms are known..
Skin contact: May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
Eye contact: Irritant. May cause redness and pain.
Ingestion: Aerosol/mist: Ingestion is unlikely to occur.

Indication of any immediate medical attention and special treatment needed

Note to physicians: None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.
Not suitable: Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.
Other information: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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.

Reference to other sections

Reference to other sections: See also section 8.

7. HANDLING AND STORAGE

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. Do not breathe spray. Avoid contact with skin and eyes.



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.

Specific end use(s)

Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m ³	2400 mg/m ³	
Ethanol	GB	1920 mg/m ³		
Ethanol		260 mg/m ³	1900 mg/m ³	Mac: NL
Propane		1800 mg/m ³		
Propan-2-ol	GB	999 mg/m ³	1250 mg/m ³	
Propylene glycol	GB	474 mg/m ³		Total Vapour and Particulates
Propylene glycol		474 mg/m ³		MAC UK: Total Vapour and Particulates
Butane	GB	1450 mg/m ³	1810 mg/m ³	
Butane		1450 mg/m ³	1810 mg/m ³	

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 Inhalation	1900 mg/m ³			343 mg/kg bw/day 950 mg/m ³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m ³
Propylene glycol	Inhalation			10 mg/m ³	168 mg/m ³
2-Phenylethanol	Dermal Inhalation				21.2 mg/kg bw/day 59.5 mg/m ³
Piperonal	Dermal Inhalation				0.5 mg/kg bw/day 3.5 mg/m ³
Coumarin	Dermal Inhalation				0.79 mg/kg bw/day 5.52 mg/m ³
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation	0.41 mg/kg bw 0.29 mg/m ³	20 mg/kg bw 0.29 mg/m ³	0.048 mg/m ³	3.33 mg/kg bw/day 0.048 mg/m ³
alpha-Hexylcinnamaldehyde	Dermal Inhalation	0.525 mg/kg bw 6.28 mg/m ³		0.525 mg/kg bw/day	18.2 mg/kg bw/day 0.078 mg/m ³
3-p-Cumenyl-2- methylpropionaldehyde	Dermal Inhalation				1.67 mg/kg bw/day 5.83 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 Inhalation Oral	950 mg/m ³			206 mg/kg bw/day 114 mg/m ³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m ³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m ³	50 mg/m ³
2-Phenylethanol	Dermal Inhalation Oral		5.1 mg/kg bw		12.7 mg/kg bw/day 17.7 mg/m ³ 5.1 mg/kg bw/day
Piperonal	Dermal Inhalation Oral				0.25 mg/kg bw/day 0.87 mg/m ³ 0.25 mg/kg bw/day
Coumarin	Dermal Inhalation Oral				0.39 mg/kg bw/day 1.38 mg/m ³ 0.39 mg/kg bw/day



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Chemical Name	Route of Exposure	DNEL Short Term		DNEL Long Term	
		Local Effect	Systemic Effect	Local Effect	Systemic Effect
2-(4-tert-butylbenzyl) propionaldehyde	Dermal Inhalation Oral	0.41 mg/kg bw 0.07 mg/m ³	20 mg/kg bw 0.07 mg/m ³ 0.041 mg/kg/bw	0.012 mg/m ³	1.67 mg/kg bw/day 0.012 0.07 mg/m ³ 0.007 mg/kg bw/day
alpha-Hexyl cinnamaldehyde	Dermal Inhalation Oral	0.0787 mg/kg bw 4.71 mg/m ³		0.0787 mg/kg bw/day	9.11 mg/kg bw/day 0.019 mg/m ³ 0.056 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Dermal Inhalation Oral				0.83 mg/kg bw/day 1.45 mg/m ³ 0.83 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2.9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
2-Phenylethanol	Water Sediment Intermittent Water STP Soil	0.215 mg/l 1.454 mg/kg	0.0215 mg/l 0.1454 mg/kg	2.15 mg/l 10 mg/l 0.164 mg/kg
1,4-Dioxacycloheptadecane-5,17-dione	Water Sediment Intermittent Water STP Soil Oral	0.00187 mg/l 1.26 mg/kg	0.000187 mg/l 0.13 mg/kg	0.0187 mg/l 124 mg/l 0.25 mg/kg 33.3 mg/kg food
Piperonal 0,1 - < 1	Water Sediment Intermittent Water STP Soil	0.0025 mg/l 0.0119 mg/kg	0.00025 mg/l 0.0012 mg/kg	0.025 mg/l 10 mg/l 0.00084 mg/kg
Pentadecan-15-olide	Water Sediment STP Soil	0.0027 mg/l 21 mg/kg	0.00027 mg/l 4.2 mg/kg	10 mg/l 10 mg/kg
Coumarin	Water Sediment Intermittent Water STP Soil Oral	0,019mg/l 0.15 mg/kg	0,0019 mg/l 0.015 mg/kg	0.014 mg/l 6.4 mg/l 0.018 mg/l 30.7 mg/kg/food
2-(4-tert-butylbenzyl)propionaldehyde	Water Sediment Intermittent Water STP Soil	0.0020 mg/l 0.0584 mg/kg	0.0002 mg/l 0.0058 mg/kg	0.0204 mg/l 1.049 mg/l 0.0463 mg/kg
alpha-Hexyl cinnamaldehyde	Water Sediment Intermittent Water STP	0.03 mg/l 47.7mg/kg	0.003 mg/l 4.77 mg/kg	0.03 mg/l 10 mg/l



Chemical Name	Route of Exposure	Fresh Water	Marine Water	
alpha-Hexyl cinnamaldehyde (continued)	Soil Oral			9.51 mg/kg 6.6 mg/kg/food
3-p-Cumenyl-2-methylpropionaldehyde	Water Sediment Intermittent Water STP Soil	0.00109 mg/l 0.126 mg/kg	0.00011 mg/l 0.0126 mg/kg	0.01092 mg/l 1 mg/l 0.0245 mg/kg

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 clothing is not required under normal conditions of use.

Respiratory protection:

Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection:

Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitrile. ± 0,5 mm Indication of permeation breakthrough time: 4 hours

Eye protection:

Wear appropriate safety glasses when there is danger of possible eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	Aerosol.	
Colour:	Colourless.	
Odour :	Perfumed.	
Odour threshold:	Not known.	
pH:	Not applicable.	Almost water free 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 (%): 1.4 (2 phenylethanol) Upper explosion limit in air (%): 19 (Ethanol)
Oxidising properties:	Not applicable.	Does not contain oxidizing substances.
Decomposition temperature:	Not applicable.	
Viscosity (20°C):	Not known.	
Viscosity (40°C):	Not known.	
Vapour pressure (20°C):	350000 Pa	
Vapour density (20°C):	> 1 (air = 1)	
Relative density (20°C):	0.637 g/ml	
Evaporation rate:	Not known	(n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:	See sub-sections below.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No other hazardous reactions known.
Conditions to avoid:	Keep away from sources of ignition and sources of heat. See section 7.
Incompatible materials:	Not applicable.
Hazardous decomposition products:	: Not known.



11. TOXICOLOGICAL INFORMATION

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: 6 %. 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, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Corrosion/irritation: May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met

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

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

Mutagenicity: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity: Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 2 %. 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: Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation: Irritant.

Ingestion

Acute toxicity: Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1041 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation: Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity: Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity: Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	----	Rat
	LD50 (oral)	4396 mg/kg bw	----	Rat
	LD50 (dermal)	12800 mg/kg bw	----	Rat
	LC50 (inhalation)	46600 mg/m ³	----	Rat
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat



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Propan-2-ol (continued)	NOEL (carcinogenicity, oral) Skin sensitisation Mutagenicity NOAEL (inhalation) Genotoxicity - in vivo NOEL (carcinogenicity, inh.) Genotoxicity - in vitro	Not carcinogenic Not sensitizing Negative 12500 mg/m ³ Not genotoxic 12500 mg/m ³ Not genotoxic	OECD 416 OECD 406 OECD 471 OECD 451 OECD 474 OECD 476	Rat Guinea pig Rat Mouse Mouse
2-Phenylethanol	Mutagenicity NOAEL (developmental toxicity, dermal) Skin sensitisation – Estimate LD50 (dermal) Skin irritation Eye irritation NOAEL (development, oral) Genotoxicity - in vitro NOAEL (dermal) LD50 (oral)	Negative 140 mg/kg bw/d Not sensitising 2535 mg/kg bw Slightly irritant Irritant 4.3 mg/kg bw/d Not genotoxic 510 mg/kg bw/d 1609 mg/kg bw	OECD 471 OECD 402 - - OECD 476 OECD 411 -	Salmonella typhimurium Rat Rabbit Rabbit Rabbit Rat Rat Rat
Piperonal	Mutagenicity NOAEL (development, oral) NOAEL (fertility, oral) Genotoxicity – in vivo Genotoxicity - in vitro NOEL (carcinogenicity, oral) Eye irritation Skin irritation Skin sensitisation NOAEL (oral) LD50 (dermal) LD50 (oral)	Negative 250 mg/kg bw/d 250 mg/kg bw/d Not genotoxic Not genotoxic 250 mg/kg bw/d Non irritant Slightly irritant Sensitising 500 mg/kg bw/d >5000 mg/kg bw 2700 mg/kg bw	OECD 471 OECD 421 OECD 478 OECD 478 OECD 473 OECD 453 OECD 405 - - OECD 408 OECD 402 OECD 401	Salmonella typhimurium Rat Rat Rat Mouse Chinese hamster Rat Rabbit Guinea pig Guinea pig Rat Rat Rat

12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product.
Ecotoxicity:	Harmful to aquatic life with long lasting effects. Calculated LC50 (fish): 130 mg/l. Calculated EC50 (water flea): 163 mg/l. Contains 2 % of components with unknown hazards to the aquatic environment.
Persistence and degradability:	May cause long term adverse effects in the aquatic environment.
Bioaccumulative potential:	Contains bioaccumulating substances.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
1-4 Dioxacycloheptadecane-5,17-dione	Ultimate aerobic biodegradation (%) NOEC (algae) IC50 (algae) EC50 (water flea) LC50 (fish) Log P(ow) BCF	> 60 % 3,48 mg/l 14,58 mg/l 8,09 mg/l 2,13 mg/l 2,9 319,3	OECD 301 B ----- ----- ----- ----- -----	Desmodesmus subspicatus Desmodesmus subspicatus Daphnia magna Brachydanio rerio
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Log P(ow)	4,7000		

13. DISPOSAL CONSIDERATIONS

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.



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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.

14. TRANSPORT INFORMATION

UN number: UN 1950
UN proper shipping name: Transport name : AEROSOLS

ADR/RID (road / railway)

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



IMDG (sea)

Transport Hazard Class: 2
Packaging group : -
EmS (fire / spill): F - D / S - U
Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.
In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information: The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

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

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

Full text of R-phrases mentioned in section 3:

R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R67 Vapours may cause drowsiness and dizziness.

**Full text of H-phrases
mentioned in section 3:**

- H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Number format : "," used as decimal separator.

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

- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE Acute Toxicity Estimate
CLP Classification, Labelling & Packaging
CMR Carcinogenic, Mutagenic or toxic for Reproduction
EEC European Economic Community
IATA International Air Transport Association
IBC code International Bulk Chemical Code
IMDG International Maritime Dangerous Goods Code
LD50/LC50 Lethal Dose/Concentration for 50% of a population
MAC Maximum Allowable Concentration
MARPOL International Convention for the Prevention of Pollution From Ships
NO(A)EL No Observed (Adverse) Effect Level
OECD Organisation for Economic Co-operation and Development
PBT Persistent, Bioaccumulative and Toxic
PC Chemical product category
PT Product type
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
STP Sewage Treatment Plant
SU Sector of Use
TWA/STEL Time-Weighted Average/Short Term Exposure Limit
UN United Nations
VOC Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative

History:

Date of issue : 29th October 2014

End of Safety Data Sheet.



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SAFETY DATA SHEET

AIROMA, MANGO

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

Product name: Airoma, Mango
Product Code: BAERO-09; 1252326; HC90148
Supplier: Hugh Crane (Cleaning Equipment) Ltd
South Walsham Road, Acle
Norwich NR13 3ES
Telephone: 01493 750072 **Fax** 01493 751854
Emergency Telephone No: 0844 892 0111 – National Poisons Info Service – for use by medical personnel only.

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

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (99/45/EC) : Extremely flammable. Dangerous for the environment.

CLP classification (1272/2008/EC): Aerosols, category 1.

Human health hazards: Eye irritation, category 2.
Specific target organ toxicity after single exposure, category 3.
Skin sensitization, category 1.
Hazardous to the aquatic environment — Chronic category 3.
May cause an allergic skin reaction. Causes serious eye irritation. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.

Environmental hazards: Harmful to aquatic life with long lasting effects.

Other information: Keep out of the reach of children. Caution: Do not breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only. Ventilate well after use. Harmful to house pets.

LABEL ELEMENTS

Label elements (99/45/EC)

Hazard symbols: F+: Extremely flammable



R- and S-phrases:

R12	Extremely flammable.
R53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
S2	Keep out of the reach of children.
S16	Keep away from sources of ignition — No smoking.
S23	Aerosol Do not breathe spray.
S51	Use only in well-ventilated areas.

Additional labelling: Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Label elements (1272/2008/EC)

Hazard pictograms:



Signal word: Danger

H- and P-phrases:

H222	Extremely flammable aerosol.
H317	May cause an allergic skin reaction.
H229	Pressurised container: May burst if heated.



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- 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/122 °F.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P261 Avoid breathing spray.

Additional labelling (99/45/EC and/or 1272/2008/EC)

Where the mixture is labelled in accordance with Regulation (EC) No 1272/2008 (CLP) the packaging shall (also) carry the text:
Contains: Contains: d-Limonene 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one

Other hazards

Other information:

The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). 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. Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Information on Hazardous Substances

Substance Name	Conc w/w %	CAS No	EC No	Sym bols	R Phrases	REACH No	Hazard Class	Picto-grams	H Phrases
Isobutane	25-50	75-28-5	200-857-2	F+	12	01-2119485395-27	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Ethanol	10-<20	64-17-5	200-578-6	F	11	01-2119457610-43	Flam Liq 2 Eye Irrit 2	GHS02 GHS07	H225 H319
Propane	10-<20	74-98-6	200-827-9	F+	12	01-2119486944-21	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
Propan-2-ol	5-<10	67-63-0	200-661-7	F; Xi	11, 36, 67	01-2119457558-25	Flam Liq 2 Eye Irrit 2 STOT SE 3	GHS02 GHS07	H225 H319 H336
Propylene Glycol	1-<5	57-55-56	200-338-0	-	-	01-2119456809-23			
d-Limonene	0,1 -<1	5989-27-5	227-813-5	Xi; N	10, 38, 43, 50/53 65	01-2119529223-47	Flam Liq 3 Skin Irrit 2 Skin Sens 1B Asp Tox 1 Aquatic Acute 1 Aquatic Chronic 1	GHS02 GHS07 GHS08 GHS09	H226 H304 H315 H317 H410
Butane	0,1 -<1	106-97-8	203-448-7	F+	12	01-2119474691-32	Flam Gas 1 Press Gas	GHS02 GHS04	H220 H280
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1Hinden-6-yl propionate	0,1 -<1	17511-60-3	241-514-7	N	51/53	01-2119969447-21	Aquatic Chronic 2	GHS09	H411
Undecan-4-olide	0,1 -<1	104-67-6	203-225-4	N	51/53	01-2119959333-34	Aquatic Chronic 2	GHS09	H411
Alpha, alpha-dimethylphenylethyl butyrate	0,1 -<1	10094-34-5	233-221-8	N	51/53		Aquatic Chronic 2	GHS09	H411
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	0,1 -<1	127-51-5	204-846-3	Xi; N	43 51/53		Skin Sens. 1; Aquatic Chronic 2	GHS07; GHS09	H317; H411

Reference is made to chapter 16 for full text of each relevant R phrase and H phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

4. FIRST AID MEASURES

Description of 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.

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.



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Eye contact: Irritant – may cause redness and pain.
Ingestion: Aerosol/mist: Ingestion is unlikely to occur.

Indication of any immediate medical attention and special treatment needed

Note to physicians: None known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Carbon dioxide (CO₂). Alcohol resistant foam. Dry chemical. Water fog.

Not suitable: Water jet.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

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.

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.

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.

Reference to other sections

Reference to other sections: See also section 8.

7. HANDLING AND STORAGE

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.

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.

Specific end use(s)

Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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



Workplace exposure limits (mg/m³):

Chemical Name	Country	TWA 8 Hr	STEL 15 min	Comments
Isobutane		1900 mg/m³	2400 mg/m³	
Ethanol	GB	1920 mg/m³		
Ethanol		260 mg/m³	1900 mg/m³	MAC: NL
Propane		1800 mg/m³		
Propan-2-ol	GB	999 mg/m³	1250 mg/m³	
Propylene glycol	GB	474 mg/m³		Total Vapour and Particulates
Propylene glycol		474 mg/m³		MAC UK: Total Vapour and Particulates
d-Limonene		110 mg/m³		MAC: DE, CH, NL
Butane	GB	1450 mg/m³	1810 mg/m³	
Butane		1450 mg/m³	1810 mg/m³	

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 Inhalation	1900 mg/m³			343 mg/kg bw/day 950 mg/m³
Propan-2-ol	Dermal Inhalation				888 mg/kg bw/day 500 mg/m³
Propylene glycol	Inhalation			10 mg/m³	168 mg/m³
d-Limonene	Inhalation				33,3 mg/m³
Undecan-4-olide	Dermal Inhalation				5,38 mg/kg bw/day 19 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 Inhalation Oral	950 mg/m³			206 mg/kg bw/day 114 mg/m³ 87 mg/kg bw/day
Propan-2-ol	Dermal Inhalation Oral				319 mg/kg bw/day 89 mg/m³ 26 mg/kg bw/day
Propylene glycol	Inhalation			10 mg/m³	50 mg/m³
d-Limonene	Inhalation Oral				8,33 mg/m³ 4,76 mg/kg bw/day
Undecan-4-olide	Dermal Inhalation Oral				2,7 mg/kg bw/day 4,68 mg/m³ 2,7 mg/kg bw/day

Predicted No-Effect Concentration (PNEC)

Chemical Name	Route of Exposure	Fresh Water	Marine Water	
Ethanol	Water Sediment Intermittent Water STP Soil Oral	0,96 mg/l 3,6 mg/kg	0,79 mg/l 2,9 mg/kg	2,75 mg/l 580 mg/l 0,63 mg/kg 0,72 mg/kg food
Propan-2-ol	Water Sediment Intermittent Water STP Soil Oral	140,9 mg/l 552 mg/kg	140,9 mg/l 552 mg/kg	140,9 mg/l 2251 mg/l 28 mg/kg 160 mg/kg food
Propylene glycol	Water Sediment Intermittent Water STP Soil Oral	260 mg/l 572 mg/kg	26 mg/l 57,2 mg/kg	183 mg/l 20000 mg/l 50 mg/kg 1133 mg/kg food
d-Limonene	Water Sediment STP Soil Oral	0,0054 mg/l 1,32 mg/kg	3,0005 mg/l 0,13 mg/kg	1,8 mg/l 0,262 mg/kg 3,33 mg/kg food
Undecan-4-olide	Water	0,0058 mg/l	0,00058 mg/l	



Undecan-4-olide (continued)	Sediment Intermittent Water STP Soil Oral	0,628 mg/kg	0,063 mg/kg	0,058 mg/l 80 mg/l 0.122 mg/kg 66,7 mg/kg food
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Exposure controls

Engineering measures:

Use only in well ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures:

When using do not eat, drink or smoke.

Personal protective equipment

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



Body protection:

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: 1 hour.

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: 1 hour.

Eye protection:

Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

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 known.	
Vapour pressure (20°C):	3.6 Pa	
Vapour density (20°C):	> 1	(air = 1)
Relative density (20°C):	0,637 g/ml	
Evaporation rate:	Not known	(n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Reactivity:	See sub-sections below.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No other hazardous reactions known.
Conditions to avoid:	Keep away from sources of ignition and sources of heat. See section 7.
Incompatible materials:	Not applicable.



Hazardous decomposition products: Not known.

11. TOXICOLOGICAL INFORMATION

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: 6 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Corrosion/irritation:

May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.

Sensitisation:

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

Carcinogenicity:

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

Mutagenicity:

Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity:

Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation:

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:

Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation:

Irritant.

Ingestion

Acute toxicity:

Aerosol/mist: Ingestion is unlikely to occur. Calculated LD50: > 1179 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause hampered eyesight.

Corrosion/irritation:

Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity:

Aerosol/mist: Ingestion is unlikely to occur. Not classified - based on available data, the classification criteria are not met.

Mutagenicity:

Aerosol/mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Toxicological Information

Chemical Name	Property	Result	Method	Test Animal
Ethanol	Skin irritation	Non-irritant	-----	Rabbit
	LD50 (dermal)	15800 mg/kg bw	-----	Rabbit
	NOAEL (inhalation)	23000 mg/m ³		Rat
	NOAEL (oral)	2400 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	20000 mg/kg bw/d	OECD 415	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	NOAEL (development, oral)	6400 mg/kg bw/d		
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m ³	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity, oral)	> 4400 mg/kg bw/d		Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh)	13 mg/m ³		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Propan-2-ol	NOAEL (oral)	870 mg/kg bw/d	-----	Rat
	LD50 (oral)	4396 mg/kg bw	-----	Rat
	LD50 (dermal)	12800 mg/kg bw	-----	Rat
	LC50 (inhalation)	46600 mg/m ³	-----	Rat



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Chemical Name	Property	Result	Method	Test Animal
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	407 mg/kg bw/d		Rat
	NOAEL (development, oral)	400 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	OECD 416	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	
	NOAEL (inhalation)	12500 mg/m ³	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity, inh.)	12500 mg/m ³		Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
d-Limonene	NOEL (carcinogenicity) - estimate.	Not carcinogenic	OECD 451	Rat
	NOEL (carcinogenicity, oral)	>75 mg/kg bw/d	-	-
	LC50 (inhalation) - estimate	>5000 mg/m ³		Rat
	Genotoxicity - in vivo	>1000 mg/kg bw/d		Rabbit
	Eye Irritation	Non-irritant	OECD 405	
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	10075 ug/cm ²	OECD 429	Mouse
	NOAEL (Development) Oral	600 mg/kg bw/d		Rat
	Skin irritation	Irritant	-	-
	NOAEL (oral)	30 mg/kg bw/d		Rat
	NOEL (oral)	>5 mg/kg bw/d	-	Rat
	LD50 (dermal)	>2000 mg/kg bw	-	Rabbit
	LD50 (oral)	4400 mg/kg bw	-	Rat
	Genotoxicity - in vitro	Not genotoxic		
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Genotoxicity - in vitro	Not genotoxic	-	-
	Skin sensitisation	5450 ug/cm ²	OECD 429	Mouse
	LD50 (oral)	>5000 mg/kg bw	-	Rat
	LD50 (dermal)	>5000 m>	-	-
	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	-	-

12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicological research has been carried out on this product.
Ecotoxicity:	Harmful to aquatic organisms. Calculated LC50 (fish): 74 mg/l. Calculated EC50 (waterflea): 36 mg/l. Contains 2% of components with unknown hazards to the aquatic environment.
Persistence and degradability:	May cause long term adverse effects in the aquatic environment.
Bioaccumulative potential:	No specific information known.
Mobility in soil:	Not applicable.
Results of PBT and vPvB ass.:	Does not contain PBT or vPvB substances in concentrations higher than 0,1%.
Other adverse effects:	Not applicable.

Ecological Information

Chemical Name	Property	Result	Method	Test Animal
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	> 92 %		
	NOEC (waterflea) -chronic	0,15 mg/l.d		Daphnia magna
	Log P(ow)	4,38		
	BCF	683		
3a,4,5,6,7,7a-Hexahydro-4,7-methano-1Hinden-6-yl propionate	Log P(ow)	3,5100		
	EC50 (waterflea)	17 mg/l	-	Daphnia magna
	Ultimate aerobic biodegradation (%)	82%	-	
	LC50 (fish)	569 mg/l	-	Oncorhynchus mykiss
	IC50 (algae)	5.94 mg/l	OECD 201	Pseudokirchneriella subcapitata
	Log P(ow)	3,6		
Alpha,alpha-dimethylphenylethyl butyrate	Log P(ow)	9,99		
	EC50 (waterflea) (estimate)	3,04 mg/l	-	Daphnia magna
	LC50 (fish)	10,19 mg/l	-	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	61.8%	OECD 301B	
	Log P(ow)	4,6		



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13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

UN number: UN 1950
UN proper shipping name: Transport name : AEROSOLS

ADR/RID/ADN (road / railway/inland waterways)

Transport Hazard 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)

Transport Hazard Class: 2
Packaging group : -
EmS (fire / spill): F - D / S - U
Marine pollutant: No

IATA (air)

Transport Hazard Class: 2

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Community regulations: Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations.
In the UK it is recommended that all aerosols should be labelled on the back with the warning about the dangers of volatile solvent abuse. The label should contain the badge 'Solvent Abuse Can Kill Instantly' accompanied by the phrase 'Use only as directed'.

Chemical safety assessment: Not applicable.

16. OTHER INFORMATION

Other information: The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.
Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.



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

SDS Revision Date:

7th April 2015

Full text of R-phrases mentioned in section 3:

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.

Full text of H-phrases mentioned in section 3:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Full text of H-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.
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.
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic category 2.
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

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labelling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code
IMDG : International Maritime Dangerous Goods Code
LD50/LC50 : Lethal Dose/Concentration for 50% of a population
MAC : Maximum Allowable Concentration
MARPOL : International Convention for the Prevention of Pollution From Ships
NO(A)EL : No Observed (Adverse) Effect Level
OECD : Organisation for Economic Co-operation and Development
PBT : Persistent, Bioaccumulative and Toxic
PC : Chemical product category
PT : Product type
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STP : Sewage Treatment Plant



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SU : Sector of Use

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

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Number format:

',' used as decimal separator.

End of Safety Data Sheet.