According to Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name : VECTAIR AIROMA FLORAL SILK BAERO-08

Product code : 1252253

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

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

1.3. Details of the supplier of the safety data sheet

Supplier : Vectair System Ltd

Unit 3, Trident Centre, Armstrong Road

Basingstoke, Hampshire RG24 8NU, Great Britain

 Telephone
 : +44-1256-319500

 Fax
 : +44-1256-319510

 E-mail
 : msds@vectair.co.uk

 Website
 : www.vectairsystems.co.uk

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

GB - Telephone : +44-1256-319500 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

(24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

CLP classification : Aerosols, category 1. Eye irritation, category 2. Skin sensitization, category 1. Specific target organ toxicity (1272/2008/EC) after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 3.

after single exposure, category 5. Hazardous to the aquatic environment — Chromic category 5.

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.

2.2. Label elements

Label elements (99/45/EC):

Hazard symbols



F+: Extremely flammable

R- and S-phrases : R12 Extremely flammable.

Product name : Vectair Airoma Floral Silk BAERO-08 Page 1/15

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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.

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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}$ C/122 $^{\circ}$ 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-methyl propional dehyde~;~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.

2.3. Other hazards

Other information : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section

1.1.3.7. of Regulation (EC) No 1272/2008). 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%.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Symbols	R-phrases
	(w/w) (%)				
Propane	10 - < 20	74-98-6	200-827-9	F+	12
Ethanol	10 - < 20	64-17-5	200-578-6	F	11
Isobutane	25 - 50	75-28-5	200-857-2	F+	12

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Geraniol	< 0,1	106-24-1	203-377-1	Xi	38-41-43
Phenol, 2-methoxy-, reaction products with	< 0,1	70955-71-4	275-062-7	Xi	43
2,2-dimethyl-3-					
methylenebicyclo[2.2.1]heptane,					
hydrogenated					
Eugenol	< 0,1	97-53-0	202-589-1	Xi	36-43
3,7-Dimethylocta-1,6-diene	< 0,1	2436-90-0	219-433-3	Xi	10-38-43-65
3-p-Cumenyl-2-methylpropionaldehyde	< 0,1	103-95-7	203-161-7	Xn; N	38-43-51/53
Undecan-4-olide	0,1 - < 1	104-67-6	203-225-4	N	51/53
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-	0,1 - < 1	14901-07-6	238-969-9	N	51/53
but-3-ene-2-one					
Geranyl acetate	0,1 - < 1	105-87-3	203-341-5	N	51/53
3,7-Dimethyloctan-3-ol	0,1 - < 1	78-69-3	201-133-9	Xi; N	38-51/53
Isobutyl salicylate	0,1 - < 1	87-19-4	201-729-9	Xn	22
Benzyl acetate	0,1 - < 1	140-11-4	205-399-7		
Naphtha (petroleum), hydrotreated heavy	0,1 - < 1	64742-48-9	265-150-3	Xn	65-66
(Z)-3-hexenyl salicylate	0,1 - < 1	65405-77-8	265-745-8	Xi; N	43-50/53
A mixture of: cis-tetrahydro-2-isobutyl-4-	0,1 - < 1	63500-71-0	405-040-6	Xi	36
methylpyran-4-ol; trans-tetrahydro-2-					
isobutyl-4-methylpyran-4-ol					
2-Phenylethanol	0,1 - < 1	60-12-8	200-456-2	Xn	22-36
Linalyl acetate	0,1 - < 1	115-95-7	204-116-4	Xi	38
Butane	0,1 - < 1	106-97-8	203-448-7	F+	12
2,6-Dimethyloct-7-en-2-ol	1 - < 5	18479-58-8	242-362-4	Xi	38
Propyleneglycol	5 - < 10	57-55-6	200-338-0		
Propan-2-ol	5 - < 10	67-63-0	200-661-7	F; Xi	11-36-67

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

Substance name	REACH nr.	Hazard Class	Pictograms	H-phrases
Propane	01-2119486944-21	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220; H280
Ethanol	01-2119457610-43	Flam. Liq. 2; Eye Irrit. 2	GHS02; GHS07	H225; H319
Isobutane	01-2119485395-27	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220; H280
Geraniol	01-2119552430-49	Skin Sens. 1; Eye Dam. 1; Skin Irrit. 2	GHS05; GHS07	H317; H318; H315
Phenol, 2-methoxy-, reaction products with		Skin Sens. 1	GHS07	H317
2,2-dimethyl-3-				
methylenebicyclo[2.2.1]heptane,				
hydrogenated				
Eugenol		Eye Irrit. 2; Skin Sens. 1	GHS07	Н319; Н317
3,7-Dimethylocta-1,6-diene		Flam. Liq. 3; Asp. Tox.	GHS02; GHS07;	H226; H304; H315; H317
		1; Skin Irrit. 2; Skin Sens.	GHS08	
		1		
3-p-Cumenyl-2-methylpropionaldehyde	01-2119970582-32	Skin Irrit. 2; Skin Sens. 1;	GHS07	H315; H317
		Aquatic Chronic 2		
Undecan-4-olide	01-2119959333-34	Aquatic Chronic 2	GHS09	H411
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-	01-2119937833-30	Aquatic Chronic 2	GHS09	H411
but-3-ene-2-one				
Geranyl acetate	01-2119973480-35	Aquatic Chronic 2	GHS09	H411
3,7-Dimethyloctan-3-ol	01-2119454788-21	Eye Irrit. 2; Skin Irrit. 2	GHS07	H315; H319
Isobutyl salicylate		Acute Tox. 4	GHS07	H302
Benzyl acetate	01-2119638272-42	Aquatic Chronic 3		H412
Naphtha (petroleum), hydrotreated heavy		Asp. Tox. 1	GHS08	H304; EUH066
(Z)-3-hexenyl salicylate	01-2119987320-37	Skin Sens. 1; Aquatic	GHS07; GHS09	H317; H410
		Chronic 2		
A mixture of: cis-tetrahydro-2-isobutyl-4-	01-0000015458-64	Eye Irrit. 2	GHS07	H319
methylpyran-4-ol; trans-tetrahydro-2-				
isobutyl-4-methylpyran-4-ol				

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2-Phenylethanol	01-2119963921-31	Acute Tox. 4; Eye Irrit. 2	GHS07	H302; H319
Linalyl acetate	01-2119454789-19	Skin Irrit. 2; Eye Irrit. 2	GHS07	Н315; Н319
Butane	01-2119474691-32	Flam. Gas 1; Press. Gas	GHS02; GHS04	H220: H280
2,6-Dimethyloct-7-en-2-ol	01-2119457274-37	Skin Irrit. 2; Eye Irrit. 2	GHS07	Н315; Н319
Propyleneglycol	01-2119456809-23			
Propan-2-ol	01-2119457558-25	Flam. Liq. 2; Eye Irrit. 2;	GHS02; GHS07	H225; H319; H336
		STOT SE 3		

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

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.

4.2. 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.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

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

Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do

not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and

prevent explosion of the aerosol.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

5.3. Advice for firefighters

Special protective equipment : Fight a fire where aerosols are involved from a protected position. Use adequate respiratory equipment in

for fire-fighters case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled

or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking. Build up of highly flammable gasses involves an explosion risk. Vapours are heavier than air. Build

up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. Waste product should not be

allowed to contaminate soil or water.

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Collect cans in an approved container. Do not pierce aerosols. Wash

away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use. Do not breathe spray. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from

heat.

Recommended packaging : Not applicable.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

have not been established for this product. Predicted no-effect concentrations (PNEC) have not been

established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments
		(mg/m3)	(mg/m3)	
Propane		1800	-	
Ethanol	GB	1920	-	-
Ethanol		260	1900	Mac: NL.
Isobutane		1900	2400	
Benzyl acetate		5	 -	
Naphtha (petroleum), hydrotreated heavy	EC	116	-	Recommendation in CLH-document - 2010
Naphtha (petroleum), hydrotreated heavy		1200	-	CEFIC HSPA
Butane	GB	1450	1810	-
Butane		1450	1810	
Propyleneglycol	GB	474	-	Total Vapour and Particulates
Propyleneglycol		474		MAC UK: Total Vapour and Particulates

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Propan-2-ol GB 999 | 1250 |-

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-term		DNEL, long-term		
	exposure					
	,	Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal				343 mg/kg bw/day	
	Inhalation	1900 mg/m3			950 mg/m3	
Geraniol	Dermal				12,5 mg/kg bw/day	
	Inhalation				161,6 mg/m3	
3-p-Cumenyl-2-methylpropionaldehyde	Dermal				1,67 mg/kg bw/day	
	Inhalation				5,83 mg/m3	
Undecan-4-olide	Dermal				5,38 mg/kg bw/day	
	Inhalation				19 mg/m3	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-	Dermal				2,1913 mg/kg bw/day	
but-3-ene-2-one						
	Inhalation				2,498 mg/m3	
3,7-Dimethyloctan-3-ol	Dermal				2,5 mg/kg bw/day	
	Inhalation				2,75 mg/m3	
Benzyl acetate	Dermal		12,5 mg/kg bw		6,25 mg/kg bw/day	
	Inhalation		43,8 mg/m3		21,9 mg/m3	
(Z)-3-hexenyl salicylate	Dermal		İ		0,9 mg/kg bw/day	
	Inhalation				1,59 mg/m3	
2-Phenylethanol	Dermal				21,2 mg/kg bw/day	
	Inhalation		İ		59,9 mg/m3	
Linalyl acetate	Dermal	0,8 mg/kg bw	İ	0,8 mg/kg bw/day	2,5 mg/kg bw/day	
	Inhalation				2,75 mg/m3	
2,6-Dimethyloct-7-en-2-ol	Dermal				20,8 mg/kg bw/day	
	Inhalation				73,5 mg/m3	
Propyleneglycol	Inhalation			10 mg/m3	168 mg/m3	
Propan-2-ol	Dermal				888 mg/kg bw/day	
	Inhalation				500 mg/m3	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-to	DNEL, short-term		DNEL, long-term	
	exposure					
		Local effect	Systemic effect	Local effect	Systemic effect	
Ethanol	Dermal			1	206 mg/kg bw/day	
	Inhalation	950 mg/m3			114 mg/m3	
	Oral	İ			87 mg/kg bw/day	
Geraniol	Dermal				7,5 mg/kg bw/day	
	Inhalation				47,8 mg/m3	
	Oral				13,75 mg/kg bw/day	
3-p-Cumenyl-2-methylpropionaldehyde	Dermal				0,83 mg/kg bw/day	
	Inhalation				1,45 mg/m3	
	Oral				0,83 mg/kg bw/day	
Undecan-4-olide	Dermal				2,7 mg/kg bw/day	
	Inhalation				4,68 mg/m3	
	Oral				2,7 mg/kg bw/day	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-	Dermal				0,5403 mg/kg bw/day	
but-3-ene-2-one						
	Inhalation				0,6214 mg/m3	
	Oral				4,3825 mg/kg bw/day	
3,7-Dimethyloctan-3-ol	Dermal				1,25 mg/kg bw/day	
-	Inhalation				0,68 mg/m3	
	Oral				0,2 mg/kg bw/day	
Benzyl acetate	Dermal		6,25 mg/kg bw		3,125 mg/kg bw/day	
	Inhalation		11 mg/m3		5,5 mg/m3	

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	Oral		6,25 mg/kg bw		3,125 mg/kg bw/day
(Z)-3-hexenyl salicylate	Dermal				0,45 mg/kg bw/day
	Inhalation				0,39 mg/m3
	Oral	İ			0,23 mg/kg bw/day
2-Phenylethanol	Dermal				12,7 mg/kg bw/day
	Inhalation	İ			17,7 mg/m3
	Oral		5,1 mg/kg bw		5,1 mg/kg bw/day
Linalyl acetate	Dermal	0,8 mg/kg bw		0,8 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				12,5 mg/kg bw/day
	Inhalation				21,7 mg/m3
	Oral				12,5 mg/kg bw/day
Propyleneglycol	Inhalation			10 mg/m3	50 mg/m3
Propan-2-ol	Dermal				319 mg/kg bw/day
	Inhalation				89 mg/m3
	Oral				26 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Ethanol	Water	0,96 mg/l	0,79 mg/l	
	Sediment	3,6 mg/kg	2,9 mg/kg	
	Intermittent water			2,75 mg/l
	STP			580 mg/l
	Soil			0,63 mg/kg
	Oral			0,72 mg/kg food
Geraniol	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
	Intermittent water			0,108 mg/l
	STP			0,7 mg/l
	Soil			0,0167 mg/kg
3-p-Cumenyl-2-methylpropionaldehyde	Water	0,00109 mg/l	0,00011 mg/l	
	Sediment	0,126 mg/kg	0,0126 mg/kg	
	Intermittent water			0,01092 mg/l
	STP			1 mg/l
	Soil			0,0245 mg/kg
Undecan-4-olide	Water	0,0058 mg/l	0,00058 mg/l	
	Sediment	0,628 mg/kg	0,063 mg/kg	
	Intermittent water			0,058 mg/l
	STP			80 mg/l
	Soil			0,122 mg/kg
	Oral			66,7 mg/kg food
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)- but-3-ene-2-one	Water	0,00146 mg/l	0,000146 mg/l	
	Sediment	22,45 mg/kg	22,45 mg/kg	
	Intermittent water	, - 8 8	, , , , , ,	0,0146 mg/l
	STP			0,0428 mg/l
	Soil			10,47 mg/kg
Geranyl acetate	Water	0,00372 mg/l	0,000372 mg/l	
- · · · y · · · · · · · · ·	Sediment	0,442 mg/kg	0,442 mg/kg	
	Intermittent water	, 88	, 8 8	0,0372 mg/l
	STP			8 mg/l
	Soil			0,0859 mg/kg
3,7-Dimethyloctan-3-ol	Water	0,0089 mg/l	0,00089 mg/l	
· · · · · · · · · · · · · · · · · · ·	Sediment	0,0821 mg/kg	0,00821 mg/kg	
	Intermittent water		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,089 mg/l
	STP			450 mg/l
	Soil			0,0112 mg/kg

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Benzyl acetate	Water	0,004 mg/l	0,0004 mg/l	1
	Sediment	0,114 mg/kg	0,0114 mg/kg	
	Intermittent water			0,04 mg/l
	STP			8,55 mg/l
	Soil			0,0205 mg/kg
(Z)-3-hexenyl salicylate	Water	0,00061 mg/l	0,000061 mg/l	
	Sediment	0,11 mg/kg	0,011 mg/kg	
	Intermittent water			0,0061 mg/l
	STP			10 mg/l
	Soil			0,0217 mg/kg
	Oral			40 mg/kg food
2-Phenylethanol	Water	0,215 mg/l	0,0215 mg/l	
	Sediment	1,454 mg/kg	0,1454 mg/kg	
	Intermittent water			2,15 mg/l
	STP			10 mg/l
	Soil			0,164 mg/kg
Linalyl acetate	Water	0,011 mg/l	0,0011 mg/l	
	Sediment	0,609 mg/kg	0,0609 mg/kg	
	Intermittent water			0,11 mg/l
	STP			10 mg/l
	Soil			0,115 mg/kg
2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	
	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
	Oral			111 mg/kg food
Propyleneglycol	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water			183 mg/l
	STP			20000 mg/l
	Soil			50 mg/kg
	Oral			1133 mg/kg food
Propan-2-ol	Water	140,9 mg/l	140,9 mg/l	
-	Sediment	552 mg/kg	552 mg/kg	
	Intermittent water			140,9 mg/l
	STP			2251 mg/l
	Soil			28 mg/kg
	Oral			160 mg/kg food

8.2. Exposure controls

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

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

Personal protective equipment:

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



Body protection : Use of specific protective industrial clothing is not required under normal conditions of use.

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.

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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: nitril. ± 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : Aerosol.
Colour : Colourless.
Odour : Perfumed.
Odour threshold : Not known.

pH : Not applicable. Almost waterfree product.

Solubility in water : Soluble.
Partition coefficient : Not known.

(n-octanol/water)

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) \qquad \qquad : \ \ Not \ known. \qquad \qquad 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)

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of ignition and sources of heat. See section 7.

10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

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Hazardous decomposition

: Not known.

products

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 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, lightheadedness, headache, nausea and loss

of coordination. Continued inhalation may result in unconsciousness and death.

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

classification criteria are not met.

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

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

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

not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low

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

Corrosion/irritation : 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		Method	Test animal
Ethanol	Skin irritation	Non-irritant		Rabbit
	LD50 (dermal)	15800 mg/kg bw		Rabbit
	NOAEL (inhalation)	23000 mg/m3		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,	6400 mg/kg bw/d		
	oral)			
	LD50 (oral)	10470 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 99999 mg/m3	OECD 403	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
	NOEL (carcinogenicity,	> 4400 mg/kg bw/d		Mouse
	oral)			

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	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	NOEL (carcinogenicity, inh.)	13 mg/m3		
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
(Z)-3-hexenyl salicylate	Genotoxicity - estimate	Not genotoxic	Read across	
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Skin irritation	Moderately irritant		Rabbit
	NOAEL (oral)	200 mg/kg bw/d	OECD 422	Rat
	LD50 (oral)	5000 mg/kg bw		Rat
2,6-Dimethyloct-7-en-2-ol	NOAEL (development) - estimate	1000 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 sensitizing		"
	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/m3		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,	400 mg/kg bw/d		Rat
	oral)			
	NOEL (carcinogenicity,	Not carcinogenic	OECD 416	Rat
	oral)	NT 4 '4' '	OECD 406	
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Mutagenicity	Negative	OECD 471	D -4
	NOAEL (inhalation)	12500 mg/m3	OECD 451	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOEL (carcinogenicity, inh.)	12500 mg/m3		Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 476	

SECTION 12 ECOLOGICAL INFORMATION

12.1. 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.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Not applicable.

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12.5. Results of PBT and vPvB ass

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

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Undecan-4-olide	EC50 (waterflea)	17 mg/l		Daphnia magna
	Ultimate aerobic	82 %	Read across	
	biodegradation (%)			
	LC50 (fish)	569 mg/l		Oncorhynchus mykiss
	IC50 (algea)	5,94 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Log P(ow)	3,6		i i
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)- but-3-ene-2-one	LC50 (fish)	5,09 mg/l		Pimephales promelas
	EC50 (waterflea)	1,64 mg/l		Daphnia magna
		3,22 mg/l	ļ	Selenastrum capricornutum
	Log P(ow)	4,1		i i
Geranyl acetate	EC50 (waterflea)	14,1 mg/l		Daphnia magna
	LC50 (fish) - estimate	68 mg/l		Leuciscus idus
	IC50 (algea)	3,72 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	4,3		
	BCF	235		
3,7-Dimethyloctan-3-ol	IC50 (algea)	21,6 mg/l	DIN 38412 Part 33	Scenedesmus subspicatus
	LC50 (fish)	8,9 mg/l	OECD 203	Brachydanio rerio
	NOEC (fish)	5 mg/l	OECD 203	Brachydanio rerio
	NOEC (waterflea) - acute	8,2 mg/l	OECD 202	Daphnia magna
	EC50 (waterflea)	14,2 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	61 %	OECD 301 F	i -
	biodegradation (%)			
	Log P(ow)	3,3		i
	BCF	152		i
(Z)-3-hexenyl salicylate	LC50 (fish) - estimate	1,13 mg/l		Brachydanio rerio
	EC50 (waterflea)	3,7 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	89 %	OECD 301 F	
	biodegradation (%)			
	IC50 (algea)	0,61 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	4,57		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste

produced by households. Containers may be recycled. Treat product residues and non-empty pack as

hazardous waste.

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

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code

according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local

regulations may be more stringent than regional or national requirements and must be complied with.

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SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 1950

14.2. UN proper shipping name

Transport name : AEROSOLS

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID (road / railway)

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



IMDG (sea)

Class : 2 Packaging group : -

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

Marine pollutant : No

IATA (air)

Class : 2

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the

transport of this product.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments.

Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

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

other regulations.

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

accompanied by the phrase 'Use only as directed'.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

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16.1. Other information

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

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

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

Full text of 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.

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.

Full text of H-phrases mentioned in section 3:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 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, 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

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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.

History

Date of first issue : 11-11-2014

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