According to Regulation (EU) No 830/2015

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

1.1. Product identifier

Product name : VECTAIR AIROMA CITRUSTINGLE

Product code : 1252131

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

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

1.3. Details of the supplier of the safety data sheet

Distributor Hygiene Systems Australia Pty Ltd

Unit 1, 2 Logistics street, Yatala, Qld, 4207

Telephone 0738018500 Emergency telephone 0450697282

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

ADG : F+, H222 Extremely flammable

Classification : Xi, H317 May cause an allergic skin reaction.

: 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

(1272/2008/EC) category 3.

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

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

2.2. Label elements

CLP classification

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.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H229 Pressurised container: May burst if heated.
 H412 Harmful to aquatic life with long lasting effects.

P251 Do not pierce or burn, even after use.

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

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

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

P261 spray Avoid breathing spray.

P403 Store in a well-ventilated place.

Additional labelling : Contains: Alpha-Pinenes; Geraniol; Geranyl acetate; Eucalyptol; Citronellol; Terpinolene; Citral;

Linalool; Limonene; Propan-2-ol.

2.3. Other hazards

Human health hazards : May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or

dizziness. Exposure to high vapour concentrations may result in a narcotic effect. Use only as directed. Intentional misuse by deliberately concentrating and inhaling contents can be harmful or

fatal.

Physical/chemical hazards: Extremely flammable. Keep away from sources of ignition — No smoking. Do not spray on a

naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Aerosol may explode from internal pressure build-up when exposed to temperatures

exceeding 50 °C.

Environmental hazards : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Harmful to aquatic

life with long lasting effects.

Other information : Keep out of reach of children. Avoid contact with skin. Wear suitable gloves. Caution: Do not

breathe spray. Use only in well-ventilated areas. Spray in short intervals for a short period only.

Ventilate well after use. Harmful to house pets.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substan	ce name	Concentration (w/w) (%)	CAS nr.	EC number	REACH nr.	OEL
Butane	Flam. Gas 1; Press. Gas H220; H280	25 - < 50	106-97-8	203-448-7	01-2119474691-32	#
Propane	Flam. Gas 1; Press. Gas H220; H280	10 - < 20	74-98-6	200-827-9	01-2119486944-21	#
Ethanol	Flam. Liq. 2; Eye Irrit. 2 H225; H319	10 - < 20	64-17-5	200-578-6	01-2119457610-43	#
Propan-2	-ol Flam. Liq. 2; Eye Irrit. 2; STOT SE 3 H225; H319; H336	5 - < 10	67-63-0	200-661-7	01-2119457558-25	#
Propane-	1,2-diol 	1 - < 5	57-55-6	200-338-0	01-2119456809-23	#
Isobutane	e Flam. Gas 1; Press. Gas H220; H280	1 - < 5	75-28-5	200-857-2	01-2119485395-27	#
Limonene	e Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B H226; H304; H315; H317; H410	1 - < 2,5 ; Asp. Tox. 1; Aqua	5989-27-5 tic Acute 1; Ac	227-813-5 quatic Chronic 1	01-2119529223-47	#

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Alpha-ter	pineol Skin Irrit. 2; Eye Irrit. 2 H315; H319	0,1 - < 1	98-55-5	202-680-6	01-2119980717-23
Linalool	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B H315; H319; H317	0,1 - < 1	78-70-6	201-134-4	01-2119474016-42
Citral	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1 H319; H315; H317	0,1 - < 1	5392-40-5	226-394-6	01-2119462829-23 #
Terpinole	ene Skin Sens. 1B; Asp. Tox. 1; Aquatic Chro H317; H304; H400; H410	< 0,1 onic 1; Aquatic A	586-62-9 cute 1	209-578-0	
Citronello	ol Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B H319; H317; H315	< 0,1	106-22-9	203-375-0	01-2119453995-23
Eucalypto	ol Flam. Liq. 3; Skin Sens. 1B H226; H317	< 0,1	470-82-6	207-431-5	01-2119967772-24
Geranyl a	acetate Skin Irrit. 2; Skin Sens. 1B; Aquatic Chro H315; H317; H412	< 0,1 nic 3	105-87-3	203-341-5	01-2119973480-35
Geraniol	Skin Sens. 1; Eye Dam. 1; Skin Irrit. 2 H317; H318; H315	< 0,1	106-24-1	203-377-1	01-2119552430-49
Alpha-Pir	nenes Flam. Liq. 3; Skin Sens. 1; Asp. Tox. 1; S H226; H317; H315; H304	< 0,1 Skin irrit 2	80-56-8	201-291-9	01-2119519223-49

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First aid measures

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

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.

Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.

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

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

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

airways and coughing.

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

skin and redness.

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

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

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Note to physicians : None known.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

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

Not suitable : Waterjet.

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 for fire-fighters

: Fight a fire where aerosols are involved from a protected position. Use adequate respiratory

equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

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

heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

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

be allowed to contaminate soil or water.

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

occur.

6.3. Methods and material for containment and cleaning up

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

Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections: For guidance on selection of personal protective equipment see section 8. For guidance on

disposal of spilled material see section 13.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

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

areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not spray on a naked flame or any incandescent material. Do not spray near fire, sources of heat or live electrical equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe spray. Avoid

contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

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

from heat.

Recommended packaging: Not applicable.

Directive 2012/18/EU : P3a - Flammable aerosols

Qualifying quantity (tonnes): 150 (net)

- lower-tier

Qualifying quantity (tonnes): 500 (net)

- upper-tier

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure

limits

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

not been established for this product.

Occupational exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments
		(mg/m3)	(mg/m3)	
Butane	GB	1450	1810	-
Butane		300	900	MAC RU
Propane		1800	-	
Ethanol	GB	1920	-	-
Ethanol		260	1900	Mac: NL
Propan-2-ol	GB	999	1250	-
Propane-1,2-diol	GB	474	-	Total Vapour and Particulates
Propane-1,2-diol		79	117	OEL: NO
Isobutane		1900	2400	
Limonene		110	-	MAC: DE, CH, NL
Citral		27	54	OEL: Poland

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
	ехрозите	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	Ŭ			888 mg/kg bw/day 500 mg/m3
Propane-1,2-diol Limonene Linalool	Inhalation Inhalation Dermal Inhalation		5 mg/kg bw 16,5 mg/m3	10 mg/m3	168 mg/m3 33,3 mg/m3 2,5 mg/kg bw/day 2,8 mg/m3

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Citral	Dermal	1,7 mg/kg bw/day
	Inhalation	9 mg/m3
Terpinolene	Dermal	0,52 mg/kg bw/day
	Inhalation	3,6 mg/m3
Citronellol	Dermal	45,8 mg/kg bw/day
	Inhalation	161,6 mg/m3
Eucalyptol	Dermal	2 mg/kg bw/day
	Inhalation	7,05 mg/m3
Geranyl acetate	Dermal	35,5 mg/kg bw/day
	Inhalation	62,59 mg/m3
Geraniol	Dermal	12,5 mg/kg bw/day
	Inhalation	161,6 mg/m3
Alpha-Pinenes	Inhalation	5,98 mg/m3

Chemical name	Route of	DNEL, short-term		DNEL, long-term		
	exposure		10			
	I	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	
Propane-1,2-diol	Inhalation			10 mg/m3	50 mg/m3	
Limonene	Inhalation Oral			, comg, me	8,33 mg/m3 4,76 mg/kg bw/day	
Linalool	Dermal Inhalation		4,1 mg/m3	15 mg/kg bw/day	1,25 mg/kg bw/day 0,7 mg/m3	
Citral	Oral Dermal Inhalation		1,2 mg/kg bw		0,2 mg/kg bw/day 1 mg/kg bw/day 2,7 mg/m3	
Terpinolene	Oral Dermal Inhalation				0,6 mg/kg bw/day 0,26 mg/kg bw/day 0,9 mg/m3	
Citronellol	Oral Dermal Inhalation				0,26 mg/kg bw/day 27,5 mg/kg bw/day 47,8 mg/m3	
Eucalyptol	Oral Dermal Inhalation				13,75 mg/kg bw/day 1 mg/kg bw/day 1,74 mg/m3	
Geranyl acetate	Oral Dermal Inhalation				600 mg/kg bw/day 17,75 mg/kg bw/day 15,4 mg/m3	
Geraniol	Oral Dermal Inhalation				8,9 mg/kg bw/day 7,5 mg/kg bw/day 47,8 mg/m3	
Alpha-Pinenes	Oral Inhalation Oral				13,75 mg/m3 13,75 mg/kg bw/day 1,06 mg/m3 0,31 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

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1	Oral	I	1	0,72 mg/kg food
Propan-2-ol	Water	140,9 mg/l	140,9 mg/l	0,1 = 111 <i>g</i> /11 <i>g</i> 1000
1 100411 2 01	Sediment	552 mg/kg	552 mg/kg	
	Intermittent water	Joz mg/kg	Joz mg/kg	140,9 mg/l
	STP			2251 mg/l
				<u> </u>
	Soil			28 mg/kg
	Oral			160 mg/kg food
Propane-1,2-diol	Water	260 mg/l	26 mg/l	
	Sediment	572 mg/kg	57,2 mg/kg	
	Intermittent water			183 mg/l
	STP			20000 mg/l
	Soil			50 mg/kg
	Oral			1133 mg/kg food
Limonene	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
	STP	1,02 1119/119	o, ro mg/ng	1,8 mg/l
				0,262 mg/kg
	Soil			
	Oral	0.000 //	0.0000 //	3,33 mg/kg food
Alpha-terpineol	Water	0,068 mg/l	0,0068 mg/l	
	Sediment	1,85 mg/kg	0,185 mg/kg	
	STP			2,6 mg/l
	Soil			0,329 mg/kg
Linalool	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
				7,8 mg/kg food
Citral	Oral	0.0067 m a/l	0,0006 mg/l	7,6 mg/kg lood
Citral	Water	0,0067 mg/l	0,0006 mg/l 0,0125 mg/kg	
	Sediment	0,125 mg/kg	0,0125 mg/kg	0.0070 //
	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
	Soil			0,0209 mg/kg
Terpinolene	Water	0,000634 mg/l	0,000063 mg/l	
	Sediment	0,147 mg/kg	0,0147 mg/kg	
	Intermittent water			0,00634 mg/l
	STP			0,2 mg/l
	Soil			0,0291 mg/kg
	Oral			10,31 mg/kg food
Citronellol	Water	0,0024 mg/l	0,00024 mg/l	
	Sediment	0,0256 mg/kg	0,00256 mg/kg	
		o,o_oog,g	0,00 <u>2</u> 00g/g	0,024 mg/l
	Intermittent water			580 mg/l
	STP			
_ , , ,	Soil	0.057 //	0.0057 //	0,00371 mg/kg
Eucalyptol	Water	0,057 mg/l	0,0057 mg/l	
	Sediment	1,425 mg/kg	0,1425 mg/kg	
	Intermittent water			0,57 mg/l
	STP			10 mg/l
	Soil			0,25 mg/kg
	Oral			133 mg/kg food
Geranyl acetate	Water	0,00372 mg/l	0,000372 mg/l	
-	Sediment	0,442 mg/kg	0,442 mg/kg	
				0,0372 mg/l
	Intermittent water			8 mg/l
-	STP			0,0859 mg/kg
		1		5,5555 mg/ng
Geraniol	Soil	0.0108 mg/l	0.0010 mg/l	
Geraniol	Water	0,0108 mg/l	0,0010 mg/l	
Geraniol		0,0108 mg/l 0,115 mg/kg	0,0010 mg/l 0,0115 mg/kg	0,108 mg/l

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	STP Soil			0,7 mg/l 0,0167 mg/kg
Alpha-Pinenes	Water	0,004 mg/l	0,0004 mg/l	
	Sediment	1,033 mg/kg	0,103 mg/kg	
	STP			3,26 mg/l
	Soil			0,539 mg/kg
	Oral			1,35 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.

III.S.

Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: butyl. Indication of permeation breakthrough time: not known.

Respiratory protection: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale

exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance

with EN 140.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: butyl. ± 0,5 mm.

Indication of permeation breakthrough time: not known.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is

danger of possible eye contact.

Thermal hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50

°C.

Environmental : Avoid release of product into surface- and/or ground water. Local guidelines on emission limits for

volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : Aerosol.
Colour : Colourless.
Odour : Perfumed.
Odour threshold : Notknown.

exposure controls

pH : Not applicable. Almost waterfree product.

Solubility in water : Soluble.
Partition coefficient (n- : Not known.

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) : Not known. Lower explosion limit in air (%): 0,7 (Limone

Explosion limits (in air): Not known.Lower explosion limit in air (%): 0,7 (Limonene):Upper explosion limit in air (%): 19 Ethanol

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature : Not applicable.

Viscosity (20°C) : Notknown.

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Viscosity (40°C) : Not relevant.

The product contains < 10% substances having an aspiration hazard.

Vapour pressure (20°C) : 310000 Pa

Vapour density (20°C) : > 1 Relative density (20°C) : 0.621 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.

(air = 1)

10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

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: < 1 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness

and death.

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

the classification criteria are not met.

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

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

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

are not met.

Skin contact

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

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

Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin. Not classified -

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

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

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

are not met.

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Eye contact

Corrosion/irritation : Irritant.

Ingestion

Acute toxicity : Aerosol/mist: Ingestion is unlikely to occur. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/

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

May cause hampered eyesight.

Corrosion/irritation : Aerosol/mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and

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

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

classification criteria are not met.

Mutagenicity : Aerosol/mist: Ingestion is unlikely to occur. Not expected to be mutagenic. Not classified - based on

available data, the classification criteria are not met.

Toxicological information:

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

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1	Constaviaito in viva	L 2000 m m/km h/d		In at
	Genotoxicity - in vivo	> 2000 mg/kg bw/d	OECD 405	Rat Rabbit
	Eye irritation	Non-irritant		Rabbit
	Mutagenicity	Negative	OECD 471	Maure
	Skin sensitisation	10075 ug/cm2	OECD 429	Mouse
	NOAEL (development,	600 mg/kg bw/d		Rat
	oral)			
	Skin irritation	Irritant		
	NOEL (oral)	5 mg/kg bw/d		Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LD50 (oral)	4400 mg/kg bw		Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
Alpha-terpineol	LC50 (inhalation) -	> 5000 mg/m3		
	estimate			
	NOAEL (development)	250 mg/kg.d	Read across	Rat
	- estimate			
	LD50 (dermal)	> 3000 mg/kg bw		Rabbit
	LD50 (oral)	4300 mg/kg bw		Rat
	NOAEL (oral) -	250 mg/kg bw/d	Read across	Rat
	estimate	200 mg/kg bw/a	11000 0000	rat
	Genotoxicity - in vitro	Not genotoxic		
	_	•	Dood coross	
	Skin sensitisation -	Not sensitizing	Read across	
	estimate	NI-4	D I	Only and the first birth in the second con-
	Mutagenicity - estimate		Read across	Salmonella typhimurium
Linalool	Skin irritation	Mildly irritant		Human
	LD50 (oral)	2790 mg/kg bw		Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	Skin irritation	Irritant	OECD 404	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	NOAEL (fertility, oral)	365 mg/kg bw/d	OECD 421	Rat
	NOAEL (development,	365 mg/kg bw/d	OECD 421	Rat
	oral)			
	LD50 (dermal)	5610 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 3200 mg/m3		Mouse
	NOAEL (oral)	117 mg/kg bw/d	OECD 407	Rat
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Eye irritation	Irritant	OECD 405	Rabbit
Citral	⁻	1414 ug/cm2	OECD 429	
Citiai	Skin sensitisation NOAEL (development,		OECD 429 OECD 421	Mouse Rat
		200 mg/kg bw/d	OECD 421	Rai
	oral)	0050 //		D-k-i
	LD50 (dermal)	2250 mg/kg bw		Rabbit
	NOAEL (oral)	833 mg/kg bw/d		Rat
	Genotoxicity - in vitro	Not genotoxic		
	LD50 (oral)	4960 mg/kg bw		Rat
	Mutagenicity	Negative	OECD 471	
	NOEL (carcinogenicity,	> 100 mg/kg bw/d	OECD 453	Rat
	oral)			
	NOAEL (developmenta	423 mg/m3		Rat
	toxicity, inh.)			
	Skin irritation	Irritant		Human
	Skin irritation	Moderately irritant		Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 474	Rat
Terpinolene	LD50 (dermal)	> 5000 mg/kg bw/d	JCCOD 421	Rabbit
Terbinolene		3860 mg/kg bw		Rat
	LD50 (oral)		Dood care	Nat
I	LD50 (oral) - estimate	1200 mg/kg bw	Read across	1

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- estimate NOAEL (fertility) - estimate NOAEL (development) - estimate NOAEL (development) - estimate Mutagenicity - estimate Genotoxicity - in vitro NOAEL (oral) - estimate Eye irritation NOAEL (oral) Skin sensitisation Mutagenicity Genotoxicity - estimate Eye irritation Skin sensitisation Moaet Skin sensitisation Mutagenicity Genotoxicity - estimate Non-irritant Sensitizing Not mutagenic Not mutagenic Not mutagenic Not genotoxic Not genotoxic Not genotoxic NoECD 405 Rabbit NoECD 422 Rat Rat Non-irritant Sensitizing NoecD 422 Not genotoxic	1	NOEL (carcinogenicity)	Not carcinogenic	ı	1
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Mutagenicity - estimate Genotoxicity - in vitro Not mutagenic Read across Read across Sestimate Sestimate Eye irritation Sidphty irritant Sid sensitissation Sidphty - in vitro Moderately irritant DEGO (armal) Sid irritation Sid irritation Sid sensitissation No. Ferman		NOAEL (development)	591 mg/kg.d	Read across	
NOAEL (oral) - estimate Eye irritation Slightly irritant OECD 405 Rabbit OECD 422 Rat NOAEL (oral) Skin irritation Skin sensitisation North and the protection of the protection of the protection North and the protection of the protection North and the protection		Mutagenicity - estimate		Read across	
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Skin sensitisation			~	QSAR	
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NOAEL (oral)		Skin sensitisation	10875 ug/cm2	OECD 429	
Skin irritation			<u> </u>	OECD 471	Salmonella typhimurium
LD50 (oral) 3450 mg/kg bw LD50 (dermal) 2650 mg/kg bw NOAEL (fertility, dermal) NOAEL (fertility, dermal) NOAEL (developmental) 300 mg/kg bw/d OECD 421 Rat		` ,			
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Skin irritation Eye irritation Moderately irritant Eye irritation Eye irritation Moderately irritant LD50 (oral) 2480 mg/kg bw			> 300 mg/kg bw/d	OECD 421	Rat
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Skin irritation Skin sensitisation Skin sensitisation Sensitizing. OECD 429 Mouse Rat LD50 (dermal) - > 2000 mg/kg bw Read across Rat		•			Salmonella typhimurium
Skin sensitisation LD50 (dermal) - > 2000 mg/kg bw Read across Rat					Camonena typriimanam
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estimate Skin irritation Severely irritant Rabbit Rabbit LD50 (dermal) > 5460 mg/kg bw Rat LD50 (oral) 6330 mg/kg bw Rat Mutagenicity Negative OECD 471 Skin sensitisation Sensitizing. OECD 429 Mouse NOAEL (developmental > 300 mg/kg bw/d OECD 421 Rat toxicity, dermal) NOAEL (fertility, > 300 mg/kg bw/d OECD 421 Rat dermal) LD50 (oral) 2100 mg/kg bw Rat LD50 (dermal) > 5000 mg/kg bw Rat Rabbit	Geranyl acetate		> 2000 mg/kg.d	Read across	Rat
LD50 (dermal)		* * *	1000 mg/kg bw/d	Read across	Mouse
LD50 (oral) 6330 mg/kg bw Rat Mutagenicity Negative OECD 471 Skin sensitisation Sensitizing. OECD 429 Mouse Mouse OECD 421 Rat toxicity, dermal NOAEL (fertility, > 300 mg/kg bw/d OECD 421 Rat dermal CD50 (oral) 2100 mg/kg bw Rat CD50 (dermal) Rat CD50 (dermal) Rat CD50 (mg/kg bw C Rat CD50 (dermal) Rat CD50 (mg/kg bw C Rat CD50 (dermal) Rabbit CD50 (mg/kg bw C Rat CD50 (mg/kg bw		Skin irritation	Severely irritant		Rabbit
Mutagenicity Negative OECD 471 Skin sensitisation Sensitizing. OECD 429 Mouse NOAEL (developmental toxicity, dermal) > 300 mg/kg bw/d OECD 421 Rat NOAEL (fertility, dermal) > 300 mg/kg bw/d OECD 421 Rat LD50 (oral) 2100 mg/kg bw Rat LD50 (dermal) > 5000 mg/kg bw Rabbit		LD50 (dermal)	> 5460 mg/kg bw		Rabbit
Skin sensitisation Geraniol Sensitisation NOAEL (developmental > 300 mg/kg bw/d toxicity, dermal) NOAEL (fertility, dermal) LD50 (oral) LD50 (dermal) Sensitizing. OECD 429 Rat OECD 421 Rat Part NOAEL (fertility, openal) LD50 (dermal) Sensitizing. OECD 421 Rat Rat Rat Rat Rat Rat Rat Rat		` ,			Rat
NOAEL (developmental > 300 mg/kg bw/d OECD 421 Rat					
toxicity, dermal) NOAEL (fertility,			<u> </u>		
NOAEL (fertility, dermal) > 300 mg/kg bw/d OECD 421 Rat LD50 (oral) 2100 mg/kg bw Rat LD50 (dermal) > 5000 mg/kg bw Rabbit	Geraniol		> 300 mg/kg bw/d	OECD 421	Rat
LD50 (oral) 2100 mg/kg bw Rat LD50 (dermal) > 5000 mg/kg bw Rabbit		NOAEL (fertility,	> 300 mg/kg bw/d	OECD 421	Rat
LD50 (dermal) > 5000 mg/kg bw Rabbit		•	2100 mg/kg bu		Pot
Skin irritation Irritant Rabbit					
				OECD 405	
Eye irritation Irritant OECD 405 Rabbit Genotoxicity - in vivo Not genotoxic Mouse		=		OEOD 405	
Certotoxicity - III vivo Inot genotoxic Inviouse	I	Genotoxicity - III VIVO	I TOL GENOLOXIC	1	IVIOUSE

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Ī	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	·
Alpha-Pinenes	NOAEL (oral) -	250 mg/kg bw/d	Read across	
	estimate			
	NOAEL (inhalation)	170 mg/m3	OECD 413	Rat
	LD50 (oral)	3700 mg/kg bw		Rat
	NOAEL (development)	250 mg/kg.d	Read across	Rat
	- estimate			
	Genotoxicity - estimate	Not genotoxic	Read across	
	Eye irritation - estimate	Moderately irritant	Read across	Rabbit
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Skin irritation	Moderately irritant		Rabbit
	Skin irritation	Non-irritant		Human
	Skin sensitisation	Sensitizing.		Guinea pig

SECTION 12 ECOLOGICAL INFORMATION

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12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC5

: Harmful to aquatic organisms. Calculated LC50 (fish): 48 mg/l. Calculated EC50 (waterflea): 28 mg/

I. 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

 $\label{eq:bioaccumulative potential} \textbf{Bioaccumulative potential} \quad \textbf{: Contains substances that are potentially bioaccumulating (Log Pow > 3)}.$

12.4. Mobility in soil

Mobility : Not applicable.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) -	0,15 mg/l.d		Daphnia magna
	chronic			
	Ultimate aerobic	> 92 %		
	biodegradation (%)			
	Log P(ow)	4,38		
	BCF	683		
Terpinolene	LC50 (fish)	0,805 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	0,634 mg/l	OECD 202	Daphnia magna
	IC50 (algea)	0,692 mg/l	OECD 201	Pseudokirchnerella subcapitata

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	LC50 (bacteria)	- 3	OECD 209	
	Ultimate aerobic	81 %	OECD 301 D	
	biodegradation (%)			
	Log P(ow)	5,1000		
Geranyl acetate	EC50 (waterflea)	14,1 mg/l	OECD 202	Daphnia magna
	IC50 (algea)	3,72 mg/l	OECD 201	Desmodesmus
				subspicatus
	LC50 (fish) - estimate	68 mg/l	Read across	Leuciscus idus
	Ultimate aerobic	> 70 %		
	biodegradation (%)			
	Log P(ow)	4,3		
	BCF	235		
Geraniol	LC50 (fish)	22 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	10,8 mg/l	OECD 202	Daphnia magna
	IC50 (algea)	13,1 mg/l	OECD 201	Desmodesmus
				subspicatus
	Ultimate aerobic	> 90 %	OECD 301 A	-
	biodegradation (%)			
	Log P(ow)	3,5	•	

VOC-content (EC) : 614g/l

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

with waste produced by households. Containers may be recycled. Treat product residues and non-

empty pack as hazardous waste.

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

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

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

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

Local regulations may be more stringent than regional or national requirements and must be

complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 1950

14.2. UN proper shipping name

UN Proper shipping name

ADG : 1950 AEROSOLS

IMDG : AEROSOLS

IATA : AEROSOLS, flammable

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

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

Class : 2
Classification code : 5F
Packaging group : Danger label : 2.1

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ADG

Class :2 5F Gases.

Label :2.1

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

IMDG (sea)

Class : 2.1 Packaging group : -

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

Marine pollutant : No

IATA (air)

Class : 2.1

14.6. Special precautions for user

Other information : Warning: Gases.

EMS Number: : F-D,S-U

Stowage Code : SW1 protected from sources of heat.

: SW22 for AEROSOLS with a maximum capacity of 1 litre: category B. For WASTE

AEROSOLS: Category C, clear of living quarters

Segregation Code : SG69 For Aerosols with a maximum capacity of 1 litre: Segregation as for class 9. Stow

"separated from class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation

as for the appropriate subdivision of class 2

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

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

instruments. Packaged liquids are not considered bulk.

14.8. Transport / Additional information:

ADG

Limited Quantities (LQ) : 1L

Exempted Quantities (EQ) : Code:E0

Not permitted as Excepted Quantity

Transport Category : 2

Tunnel restriction code : D

IMDG

Limited Quantities (LQ) :1L

Excepted Quantities (EQ) : Code:E0

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Not permitted as Excepted Quantity

UN "Model Regulation": : UN1950 AEROSOLS,2.1

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EC) No 830/2015 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC

(aerosols) and other regulations.

15.2. Chemical safety assessment

Chemical safety

: Not applicable.

assessment

SECTION 16 OTHER INFORMATION

16.1. Other information

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

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

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

Full text of H-phrases mentioned in section 3:

H220 Extremely flammable gas.

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

H228 Flammable solid.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410 Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412

Full text of hazard classes mentioned in section 3:

: Flammable gas, category 1. Flam. Gas 1

Press. Gas : Compressed gas.

Flam. Lig. 2 : Flammable liquid, category 2. : Flammable liquid, hazard category 3. Flam. Liq. 3 : Flammable solid, category 1. Flam, Sol. 1 : Acute toxicity, category 4.

Acute Tox. 4 Skin Corr. 1B : Skin corrosive, category 1B. Skin Irrit. 2 : Skin irritation, category 2. Eye Dam. 1 : Serious eye damage, category 1. Eye Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1 : Skin sensitization, category 1.

STOT SE 3 : Specific target organ toxicity after single exposure, category 3.

: Aspiration hazard, category 1. Asp. Tox. 1

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

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

Acute Toxicity Estimate ATF **BCF** Bioconcentration factor DNEL Derived no-effect level

ECETOC TRA European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment

FU **European Union**

EUSES European Union System for the Evaluation of Substances

IBC code Intermediate Bulk Container

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

No Observed (Adverse) Effect Level NOAEL No observed effect concentration NOEC Occupational exposure limit OEL

Persistent, Bioaccumulative and Toxic **PBT**

PC Chemical product category **PNEC** Predicted no-effect concentration Sewage Treatment Plant

STP

SU Sector of Use

SVHC Substance of very high concern

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

Very Persistent and Very Bioaccumulative vPvB

Number format : "," used as decimal separator.

Product name : Vectair Airoma Citrus Tingle Page 17/17 Date of issue 08.01.2018 Replaces issue dated : 27-03-2015 **CHESSOL SDS**