

According to 1907/2006/EC (REACH), 2015/830/EU

#### 8436581682298 - TERPS SPRAY ZKITTLEZ

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

1.1 Product identifier: 8436581682298 – TERPS SPRAY ZKITTLEZ

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

Relevant uses: Flavor for food use

Uses advised against: All uses not specified in this section or in section 7.3

## 1.3 Details of the supplier of the safety data sheet:

Cali Terpenes S.L.

World Trade Center Edificio Sur Planta 2 C/ Moll de Barcelona S/N 08039 Barcelona, España

telf.: +34 686752682 -

<u>info@caliterpenes.com</u> <u>www.caliterpenes.com</u>

**1.4 Emergency telephone number:** +34 686752682 (10:00 - 17:00)

#### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

#### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aerosol: Aerosol 1, H222

Aerosol: Aerosol 1 Pressurised container: May burst if heated, H229.

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410

Asp. Tox. 1: Aspiration hazard, Category 1, H304 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1B: Sensitization skin, Category 1B, H317

#### 2.2 Label elements:

#### CLP Regulation (EC) No 1272/2008:

#### Danger









# **Hazard statements:**

Aerosol: Aerosol 1: H222 - Extremely flammable aerosol Aerosol 1: H229 - Pressurised container: May burst if heated.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Flam. Liq. 3: H226 - Flammable liquid and vapour

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

## **Precautionary statements:**

P102: Keep out of reach of children

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

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

P260: Do not breathe/vapours/ spray.

P264: Wash thoroughly after handling

P271: Use only outdoors or in a well-ventilated área

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of water

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste.

## **Supplementary information:**

Contains 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene, Cineole, d-limonene

#### Substances that contribute to the classification

(-)-pin-2(3)-ene; (-)-pin-2(10)-ene; Linalool; P-mentha-1,4(8)-diene

# 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria.

Changes compared to the previous version: Regulatory update

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance: Non-applicable

#### 3.2 Mixture: Chemical description: Aerosol. Mixture of substances. Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification		Chemical name/Classification	Concentration		
CAS: 7785-26-4 EC: 232-077-3	(-)-pin-2(3)-ene(	Self-classified	40 - <60 %		
Index: Non-applicable REACH: 01-2119979519-16-XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger			
CAS: 5989-27-5 EC: 227-813-5	d-limonene(1(	ATP CLP00	10 - <20 %		
Index: 601-029-00-7 REACH: 01-2119529223-47-XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	10 120 70		
CAS: 18172-67-3 EC: 242-060-2	(-)-pin-2(10)-ene	Self-classified	10 - <20 %		
Index: Non-applicable REACH: 01-2119519230-54-XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. (1) (1) (1) (2) (2) (3) H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	10 - \20 70		
CAS: 78-70-6 EC: 201-134-4	Linalool(1(	Self-classified	<10 %		
Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	110 70		
CAS: 586-62-9 EC: 209-578-0	P-mentha-1,4(8)-	liene(1) Self-classified	-10.0/		
Index: Non-applicable REACH: 01-2119982325-32-XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Skin Sens. 1B: 4	<10 %		
CAS: 13466-78-9 EC: 236-719-3	3,7,7-trimethylbicy	clo[4.1.0]hept-3-ene(1( Self-classified	<10 %		
Index: Non-applicable REACH: 01-2119520252-55-XXXX	Regulation 1272/2008	Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 -	<10 %		
CAS: 470-82-6 EC: 207-431-5	Cineole(1(	Self-classified	<10 %		
Index: Non-applicable REACH: 01-2119967772-24-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Sens. 1B: H317 - Warning	110 70		
CAS: 98-55-5 EC: 202-680-6	P-menth-1-en-8-o	Self-classified	<10 %		
Index: Non-applicable REACH: 01-2119980717-23-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	10 70		
CAS: 7727-37-9 CE: 231-783-9	Nitrogen	Self-classified	<10 %		
Index: Non-applicable REACH: Non-applicable	Regulation 1272/2008	Warning			

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

## **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention fordirect exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

## By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

# By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS.

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# SECTION 4: FIRST AID MEASURES (continued)

## By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

# 5.1 Extinguishing media:

If possible, use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO().IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

## 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit...) in accordance with Directive 89/654/EC.

#### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

# 6.2 Environmental precautions:

Avoid at all costs any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

# 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

## 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling:

## A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

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## SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks.

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks.

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

#### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

There are no occupational exposure limits for the substances contained in the product.

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
(-)-pin-2(3)-ene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7785-26-4	Dermal	Non-applicable	Non-applicable	0,8 mg/kg	Non-applicable
EC: 232-077-3	Inhalation	Non-applicable	Non-applicable	5,69 mg/m <sup>3</sup>	Non-applicable
d-limonene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	33,3 mg/m <sup>3</sup>	Non-applicable
(-)-pin-2(10)-ene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 18172-67-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 242-060-2	Inhalation	Non-applicable	Non-applicable	5,98 mg/m <sup>3</sup>	Non-applicable
Linalool	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-70-6	Dermal	5 mg/kg	Non-applicable	2,5 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	16,5 mg/m <sup>3</sup>	Non-applicable	2,8 mg/m <sup>3</sup>	Non-applicable
P-mentha-1,4(8)-diene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 586-62-9	Dermal	Non-applicable	Non-applicable	0,52 mg/kg	Non-applicable
EC: 209-578-0	Inhalation	Non-applicable	Non-applicable	3,6 mg/m <sup>3</sup>	Non-applicable
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 13466-78-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 236-719-3	Inhalation	Non-applicable	Non-applicable	5,98 mg/m <sup>3</sup>	Non-applicable
Cineole	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 470-82-6	Dermal	Non-applicable	Non-applicable	2 mg/kg	Non-applicable
EC: 207-431-5	Inhalation	Non-applicable	Non-applicable	7,05 mg/m <sup>3</sup>	Non-applicable

# **DNEL** (General population):

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
(-)-pin-2(3)-ene	Oral	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable	
CAS: 7785-26-4	Dermal	Non-applicable	Non-applicable	0,3 mg/kg	Non-applicable	
EC: 232-077-3	Inhalation	Non-applicable	Non-applicable	1 mg/m³	Non-applicable	
d-limonene	Oral	Non-applicable	Non-applicable	4,76 mg/kg	Non-applicable	
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	8,33 mg/m <sup>3</sup>	Non-applicable	
(-)-pin-2(10)-ene	Oral	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable	
CAS: 18172-67-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 242-060-2	Inhalation	Non-applicable	Non-applicable	1,06 mg/m <sup>3</sup>	Non-applicable	
Linalool	Oral	1,2 mg/kg	Non-applicable	0,2 mg/kg	Non-applicable	
CAS: 78-70-6	Dermal	2,5 mg/kg	Non-applicable	1,25 mg/kg	Non-applicable	
EC: 201-134-4	Inhalation	4,1 mg/m³	Non-applicable	0,7 mg/m <sup>3</sup>	Non-applicable	
P-mentha-1,4(8)-diene	Oral	Non-applicable	Non-applicable	0,26 mg/kg	Non-applicable	
CAS: 586-62-9	Dermal	Non-applicable	Non-applicable	0,26 mg/kg	Non-applicable	
EC: 209-578-0	Inhalation	Non-applicable	Non-applicable	0,9 mg/m <sup>3</sup>	Non-applicable	
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Oral	Non-applicable	Non-applicable	0,31 mg/kg	Non-applicable	
CAS: 13466-78-9	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 236-719-3	Inhalation	Non-applicable	Non-applicable	1,06 mg/m <sup>3</sup>	Non-applicable	
Cineole	Oral	Non-applicable	Non-applicable	600 mg/kg	Non-applicable	
CAS: 470-82-6	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable	
EC: 207-431-5	Inhalation	Non-applicable	Non-applicable	1,74 mg/m <sup>3</sup>	Non-applicable	

# PNEC:

Identification				
(-)-pin-2(3)-ene	STP	6,6 mg/L	Fresh water	0,000303 mg/L
CAS: 7785-26-4	Soil	0,0158 mg/kg	Marine water	0,00003 mg/L
EC: 232-077-3	Intermittent	3,03 mg/L	Sediment (Fresh water)	0,0783 mg/kg
	Oral	13,1 g/kg	Sediment (Marine water)	0,00783 mg/kg
d-limonene	STP	1,8 mg/L	Fresh water	0,0054 mg/L
CAS: 5989-27-5	Soil	0,262 mg/kg	Marine water	0,00054 mg/L
EC: 227-813-5	Intermittent	Non-applicable	Sediment (Fresh water)	1,32 mg/kg
	Oral	3,33 g/kg	Sediment (Marine water)	0,13 mg/kg
(-)-pin-2(10)-ene	STP	3,26 mg/L	Fresh water	0,002 mg/L
CAS: 18172-67-3	Soil	0,49 mg/kg	Marine water	0,0002 mg/L
EC: 242-060-2	Intermittent	Non-applicable	Sediment (Fresh water)	0,485 mg/kg
	Oral	1,35 g/kg	Sediment (Marine water)	0,048 mg/kg
Linalool	STP	10 mg/L	Fresh water	0,2 mg/L
CAS: 78-70-6	Soil	0,327 mg/kg	Marine water	0,02 mg/L
EC: 201-134-4	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
	Oral	7,8 g/kg	Sediment (Marine water)	0,222 mg/kg
P-mentha-1,4(8)-diene	STP	0,2 mg/L	Fresh water	0,000634 mg/L
CAS: 586-62-9	Soil	0,0291 mg/kg	Marine water	0,0000634 mg/L
EC: 209-578-0	Intermittent	0,00634 mg/L	Sediment (Fresh water)	0,147 mg/kg
	Oral	10,31 g/kg	Sediment (Marine water)	0,0147 mg/kg
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	STP	3,26 mg/L	Fresh water	0,05 mg/L
CAS: 13466-78-9	Soil	2,48 mg/kg	Marine water	0,005 mg/L
EC: 236-719-3	Intermittent	Non-applicable	Sediment (Fresh water)	11,88 mg/kg
	Oral	1,35 g/kg	Sediment (Marine water)	1,19 mg/kg
Cineole	STP	10 mg/L	Fresh water	0,057 mg/L
CAS: 470-82-6	Soil	0,2 mg/kg	Marine water	0,0057 mg/L
EC: 207-431-5	Intermittent	0,57 mg/L	Sediment (Fresh water)	0,06732 mg/kg
	Oral	133 g/kg	Sediment (Marine water)	0,00673 mg/kg

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
P-menth-1-en-8-ol	STP	2,6 mg/L	Fresh water	0,068 mg/L
CAS: 98-55-5	Soil	0,329 mg/kg	Marine water	0,0068 mg/L
EC: 202-680-6	Intermittent	Non-applicable	Sediment (Fresh water)	1,85 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,185 mg/kg

## 8.2 Exposure controls:

A.- General security and hygiene measures in the workplace

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CATIII	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

#### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.

<sup>&</sup>quot;As the product is a mixture of several substances, the resistance of the glove material cannot be predicted in advance with total reliability and has therefore to be checked prior to the application."

# D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CATII	EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

#### E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing	CATIII	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	CAT III	EN ISO 13287:2012 EN ISO 20345:2011	Replace boots at any sign of deterioration.

## F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

# **Environmental exposure controls:**

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Colour:

Odour:

Odour threshold:

Aerosol

Not available

Not available

Characteristic

Non-applicable \*

Volatility:

Boiling point at atmospheric pressure: 166 °C Vapour pressure at 20 °C: 439 Pa

Vapour pressure at 50 °C: 2118,98 Pa (2,12 kPa) Evaporation rate at 20 °C: Non-applicable \*

Product description:

Density at 20 °C: 860 kg/m3 Relative density at 20 °C: 0,86 Dynamic viscosity at 20 °C: 1,82 cP Kinematic viscosity at 20 °C: 2,12 cSt Kinematic viscosity at 40 °C: <20,5 cSt Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Non-applicable \* Decomposition temperature:

Explosive properties: Non-applicable \*
Oxidising properties: Non-applicable \*

Flammability:

Melting point/freezing point:

Flash Point: 36 °C

Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 235 °C

Lower flammability limit: Not available

Upper flammability limit: Not available

Explosive:

Lower explosive limit: Non-applicable \*
Upper explosive limit: Non-applicable \*

9.2 Other information:

Surface tension at 20 °C:

Non-applicable \*

Pressure:

8,5 bar/123 psi

\*Not relevant due to the nature of the product, not providing information property of its hazards.

Non-applicable \*

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## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### 10.5 Incompatible

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available.

# Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

    IARC: d-limonene (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.



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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

#### Other information:

Non-applicable

## Specific toxicology information on the substances:

Identification	A	Acute toxicity	
P-mentha-1,4(8)-diene	LD50 oral	3850 mg/kg	Rat
CAS: 586-62-9	LD50 dermal	5100 mg/kg	Rabbit
EC: 209-578-0	LC50 inhalation	Non-applicable	
Linalool	LD50 oral	3000 mg/kg	Rat
CAS: 78-70-6	LD50 dermal	5610 mg/kg	Rabbit
EC: 201-134-4	LC50 inhalation	Non-applicable	
d-limonene	LD50 oral	4400 mg/kg	Rat
CAS: 5989-27-5	LD50 dermal	5100 mg/kg	Rabbit
EC: 227-813-5	LC50 inhalation	Non-applicable	
Cineole	LD50 oral	2480 mg/kg	Rat
CAS: 470-82-6	LD50 dermal	Non-applicable	
EC: 207-431-5	LC50 inhalation	Non-applicable	
P-menth-1-en-8-ol	LD50 oral	4300 mg/kg	Rat
CAS: 98-55-5	LD50 dermal	Non-applicable	
EC: 202-680-6	LC50 inhalation	Non-applicable	
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	LD50 oral	4800 mg/kg	Rat
CAS: 13466-78-9	LD50 dermal	Non-applicable	
EC: 236-719-3	LC50 inhalation	Non-applicable	
(-)-pin-2(10)-ene	LD50 oral	4800 mg/kg	Rat
CAS: 18172-67-3	LD50 dermal	Non-applicable	
EC: 242-060-2	LC50 inhalation	Non-applicable	
(-)-pin-2(3)-ene	LD50 oral	3700 mg/kg	Rat
CAS: 7785-26-4	LD50 dermal	Non-applicable	
EC: 232-077-3	LC50 inhalation	Non-applicable	

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available.

## 12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
(-)-pin-2(3)-ene	LC50	0.3 mg/L (96 h)	Danio rerio	Fish
CAS: 7785-26-4	EC50	0.47 mg/L (48 h)	Daphnia magna	Crustacean
EC: 232-077-3	EC50	Non-applicable		
d-limonene	LC50	0.702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50	0.577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50	Non-applicable		

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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Acute toxicity	Species	Genus
(-)-pin-2(10)-ene	LC50	0.56 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 18172-67-3	EC50	1.2 mg/L (48 h)	Daphnia magna	Crustacean
EC: 242-060-2	EC50	0.7 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Linalool	LC50	27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 78-70-6	EC50	59 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-134-4	EC50	88.3 mg/L (96 h)	Scenedesmus subspicatus	Algae
P-mentha-1,4(8)-diene	LC50	0.8 mg/L (96 h)	Danio rerio	Fish
CAS: 586-62-9	EC50	0.63 mg/L (48 h)	Daphnia magna	Crustacean
EC: 209-578-0	EC50	0.7 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
P-menth-1-en-8-ol	LC50	10 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 98-55-5	EC50	Non-applicable		
EC: 202-680-6	EC50	Non-applicable		

# 12.2 Persistence and degradability:

Identification	De	egradability	Biode	egradability
(-)-pin-2(3)-ene	BOD5	Non-applicable	Concentration	2 mg/L
CAS: 7785-26-4	COD	Non-applicable	Period	28 days
EC: 232-077-3	BOD5/COD	Non-applicable	% Biodegradable	78 %
d-limonene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 5989-27-5	COD	Non-applicable	Period	28 days
EC: 227-813-5	BOD5/COD	Non-applicable	% Biodegradable	100 %
(-)-pin-2(10)-ene	BOD5	Non-applicable	Concentration	2 mg/L
CAS: 18172-67-3	COD	Non-applicable	Period	28 days
EC: 242-060-2	BOD5/COD	Non-applicable	% Biodegradable	76 %
Linalool	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 78-70-6	COD	Non-applicable	Period	28 days
EC: 201-134-4	BOD5/COD	0.55	% Biodegradable	90 %
P-mentha-1,4(8)-diene	BOD5	Non-applicable	Concentration	2 mg/L
CAS: 586-62-9	COD	Non-applicable	Period	28 days
EC: 209-578-0	BOD5/COD	Non-applicable	% Biodegradable	81 %
P-menth-1-en-8-ol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 98-55-5	COD	Non-applicable	Period	14 days
EC: 202-680-6	BOD5/COD	Non-applicable	% Biodegradable	84,6 %

# 12.3 Bioaccumulative potential:

Identification	Bio	Bioaccumulation potential		
(-)-pin-2(3)-ene	BCF	1250		
CAS: 7785-26-4	Pow Log	4.5		
EC: 232-077-3	Potential	Very High		
d-limonene	BCF	660		
CAS: 5989-27-5	Pow Log	4.83		
EC: 227-813-5	Potential	High		
(-)-pin-2(10)-ene	BCF	1100		
CAS: 18172-67-3	Pow Log	4.4		
EC: 242-060-2	Potential	Very High		
Linalool	BCF	39		
CAS: 78-70-6	Pow Log	2.97		
EC: 201-134-4	Potential	Moderate		
P-mentha-1,4(8)-diene	BCF	334		
CAS: 586-62-9	Pow Log	4.29		
EC: 209-578-0	Potential	High		
Cineole	BCF			
CAS: 470-82-6	Pow Log	2.74		
EC: 207-431-5	Potential			

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# SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential		
P-menth-1-en-8-ol	BCF	110	
CAS: 98-55-5	Pow Log	2.98	
EC: 202-680-6	Potential	High	

#### 12.4 Mobility in

Identification	Absorp	Absorption/desorption		tility
(-)-pin-2(3)-ene	Koc	2180	Henry	Non-applicable
CAS: 7785-26-4	Conclusion	Low	Dry soil	Non-applicable
EC: 232-077-3	Surface tension	Non-applicable	Moist soil	Non-applicable
d-limonene	Koc	6324	Henry	2533,13 Pa·m³/mol
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Yes
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Yes
(-)-pin-2(10)-ene	Koc	2080	Henry	Non-applicable
CAS: 18172-67-3	Conclusion	Low	Dry soil	Non-applicable
EC: 242-060-2	Surface tension	2,685E-2 N/m (25 °C)	Moist soil	Non-applicable
P-mentha-1,4(8)-diene	Koc	1120	Henry	Non-applicable
CAS: 586-62-9	Conclusion	Low	Dry soil	Non-applicable
EC: 209-578-0	Surface tension	2,865E-2 N/m (25 °C)	Moist soil	Non-applicable
Cineole	Koc	Non-applicable	Henry	Non-applicable
CAS: 470-82-6	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 207-431-5	Surface tension	3,24E-2 N/m (25 °C)	Moist soil	Non-applicable

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria.

#### 12.6 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 05 04*	Gases in pressure vessels (including halons) containing hazardous substances	Dangerous

# Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP3 Flammable, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

# Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

# Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

# Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



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## SECTION 14: TRANSPORT INFORMATION (continued)

**14.1 UN number:** UN1950

**14.2 UN proper shipping name:** AEROSOLS **14.3 Transport hazard class(es):** 2 code 5F

Labels: 2.1

14.4 Packing group:

**14.5 Environmental hazards:** Yes

14.6 Special precautions for user

Special regulations: 190, 327, 344, 625

Tunnel restriction code: D

Physico-Chemical properties: see section 9

Limited quantities: 1 L

**14.7 Other information (road** Excepted quantity: E0

transport):

## Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1 UN number: UN195014.2 UN proper shipping name: AEROSOLS

**14.3** Transport hazard class(es): 2

Labels: 2, see SP 63

14.4 Packing group:

**14.5 Environmental hazards:** Ye

14.6 Special precautions for user

Special regulations: 63, 190, 277, 327, 344, 959

EmS Codes: F-D, S-U
Physico-Chemical properties: see section 9

Limited quantities: 1 L

Segregation group: Non-applicable

**14.7 Other information** Excepted quantity: E0

(maritime transport):

# Transport of dangerous goods by air:

With regard to IATA/ICAO 2021:

**14.1 UN number:** UN1950

**14.2 UN proper shipping name:** AEROSOLS, Flammable

**14.3** Transport hazard class(es): 2.1

Labels: 2.1 Y203

14.4 Packing group:

14.5 Environmental hazards: Yes

**14.6 Special precautions for user**Physico-Chemical properties: see se

Physico-Chemical properties: see section 9

**14.7 Other information (air** Excepted quantity: E0

transport):

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## SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable.

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### **SEVESO III**

Section	Description	Lower-tier requirements (ton)	Upper-tier requirements (ton)
P3b	FLAMMABLE AEROSOL	5000	50000
E1	ENVIRONMENTAL HAZARDS	100	200

# Limitations to commercialization and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....): Non-applicable

# Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Council Directive 75/324 / EEC of 20 May 1975 on the approximation of the laws of the Member States on aerosol generators. Commission Directive 2008/47 / EC of April 8, 2008, which modifies, to adapt it to technical progress, Council Directive 75/324 / EEC, on the approximation of the laws of the Member States on generators aerosol sprays.

Commission Directive 94/1 / EC of January 6, 1994 which proceeds to the technical adaptation of Council Directive 75/324 / EEC on the approximation of the laws of the Member States on aerosol generators.

Commission Directive 2013/10 / EU, of March 19, 2013, amending Directive 75/324 / EEC, on the approximation of the laws of the Member States on aerosol generators, in order to adapt its provisions on labeling to Regulation (EC) No. 1272/2008 of the European Parliament and of the Council, on classification, labeling and packaging of substances and mixtures.

COMMISSION DIRECTIVE (EU) 2016/2037 of November 21, 2016 amending Directive 75/324 / EEC, on the approximation of the laws of the Member States on aerosol generators, in order to adapt their Provisions on labeling to Regulation (EC) No. 1272/2008 of the European Parliament and of the Council, on classification, labeling and packaging of substances and mixtures.

#### Other legislation:

The product could be affected by sectorial legislation.

# 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

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#### SECTION 16: OTHER INFORMATION

## Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

## Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

# Texts of the legislative phrases mentioned in section 2:

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

H317: May cause an allergic skin reaction

H315: Causes skin irritation. H400: Very toxic to aquatic life

11410. Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

H304: May be fatal if swallowed and enters airways

## Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways

Eye Irrit. 2: H319 - Causes serious eye irritation

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction. Skin Sens. 1B: H317 - May cause an allergic skin reaction.

#### Classification procedure:

Skin Sens. 1B: Calculation method Skin Irrit. 2: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method Asp. Tox. 1: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

#### Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

# Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

## **Abbreviations and acronyms:**

ADR: Agreement concerning the international carriage of dangerous goods by road.

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.