Zoflora Refills Lemon Zing SDS/1645/1

By Abigail Almond at 2:16 pm, Jun 01, 2023 This SDS is an Eng

Safety data sheet

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Zoflora Multipurpose Disinfectant Cleaner Lemon Zing Refill 9 ml

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

1.1 Product identifier: Zoflora Multipurpose Disinfectant Cleaner Lemon Zing Refill 9 ml

Other means of identification:

Non-applicable

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

Relevant uses: Disinfectant cleaner

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:

THE SPB GLOBAL CORPORATION, SL

P.I. de Cheste, vial 6

46380 CHESTE - VALENCIA - ESPAÑA

Phone: +34 96 251 20 85 - Fax: +34 96 251 21 35

ficha_seguridad@spb.es https://www.spb.es

1.4 Emergency telephone number: (+34)96-251.20.85. 8:30-14:00h/15:00-18:00h (Monday - Friday)

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.

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Eye Dam. 1: Serious eye damage, Category 1, H318 Met. Corr. 1: Corrosive to metals, Category 1, H290

Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger





Hazard statements:

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

Eye Dam. 1: H318 - Causes serious eye damage. Met. Corr. 1: H290 - May be corrosive to metals.

Skin Irrit. 2: H315 - Causes skin irritation.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

EUH208: Contains CITRAL, LIMONENE, LINALOOL. May produce an allergic reaction.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: 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:	122-99-6	2-phenoxyethanol(1)	ATP ATP17	
	204-589-7 603-098-00-9 01-2119488943-21- XXXX	603-098-00-9 01-2119488943-21- XXXX		17,5 - <20 %
CAS:	68424-85-1	Quaternary ammoniu	m compounds, benzyl-C12-16-alkyldimethyl, chlorides ⁽¹⁾ Self-classified	
	270-325-2 Non-applicable Non-applicable	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Met. Corr. 1: H290; Skin Corr. 1B: H314 - Danger	17,5 - <20 %
	64-17-5	ethanol ⁽¹⁾	Self-classified	
	200-578-6 603-002-00-5 01-2119457610-43- XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	1 - <2 %
CAS:	78-70-6	LINALOOL(1)	Self-classified	
EC: Index: REACH:	201-134-4 Non-applicable Non-applicable	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	0,1 - <1 %
CAS:	5392-40-5	CITRAL ⁽¹⁾	Self-classified	
	226-394-6 Non-applicable Non-applicable	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	0,1 - <1 %
CAS:	5989-27-5	LIMONENE(1)	Self-classified	
	227-813-5 Non-applicable Non-applicable	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	0,1 - <1 %
CAS:	123-92-2	Isopentyl acetate(2)	ATP CLP00	
REACH:	204-662-3 607-130-00-2 01-2119548408-32- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; EUH066 - Warning	<0,1 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

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

Other information:

Identification	M-factor	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Acute	10
CAS: 68424-85-1	Chronic	1

Identification	Specific concentration limit	
ethanol CAS: 64-17-5 EC: 200-578-6	% (w/w) >=50: Eye Irrit. 2 - H319	

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 for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

²⁾ Substance with a Union workplace exposure limit



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SECTION 4: FIRST AID MEASURES (continued)

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 water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

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:

For non-emergency personnel:

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. Remove 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.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost 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:



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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. 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. KEEP ONLY IN ORIGINAL PACKAGING.

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

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 (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Isopentyl acetate	IOELV (8h)	50 ppm	270 mg/m ³
CAS: 123-92-2	IOELV (STEL)	100 ppm	540 mg/m ³

DNEL (Workers):

		Shore C	Aposure	Long C/	(posure
Identification		Systemic	Local	Systemic	Local
2-phenoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 122-99-6	Dermal	Non-applicable	Non-applicable	20,83 mg/kg	Non-applicable
EC: 204-589-7	Inhalation	Non-applicable	Non-applicable	5,7 mg/m ³	5,7 mg/m ³
ethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64-17-5	Dermal	Non-applicable	Non-applicable	343 mg/kg	Non-applicable
EC: 200-578-6	Inhalation	Non-applicable	Non-applicable	950 mg/m ³	Non-applicable





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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
LINALOOL	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-70-6	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	Non-applicable	Non-applicable	24,58 mg/m ³	Non-applicable
CITRAL	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5392-40-5	Dermal	Non-applicable	Non-applicable	1,7 mg/kg	Non-applicable
EC: 226-394-6	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable
LIMONENE	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	9,5 mg/kg	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	66,7 mg/m ³	Non-applicable

DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
2-phenoxyethanol	Oral	9,23 mg/kg	Non-applicable	9,23 mg/kg	Non-applicable
CAS: 122-99-6	Dermal	Non-applicable	Non-applicable	10,42 mg/kg	Non-applicable
EC: 204-589-7	Inhalation	Non-applicable	Non-applicable	2,41 mg/m ³	2,41 mg/m ³
ethanol	Oral	Non-applicable	Non-applicable	87 mg/kg	Non-applicable
CAS: 64-17-5	Dermal	Non-applicable	Non-applicable	206 mg/kg	Non-applicable
EC: 200-578-6	Inhalation	Non-applicable	Non-applicable	114 mg/m ³	Non-applicable
LINALOOL	Oral	Non-applicable	Non-applicable	2,49 mg/kg	Non-applicable
CAS: 78-70-6	Dermal	Non-applicable	Non-applicable	1,25 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	Non-applicable	Non-applicable	4,33 mg/m ³	Non-applicable
CITRAL	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
CAS: 5392-40-5	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 226-394-6	Inhalation	Non-applicable	Non-applicable	2,7 mg/m ³	Non-applicable
LIMONENE	Oral	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	4,8 mg/kg	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	16,6 mg/m ³	Non-applicable

PNEC:

Identification				
2-phenoxyethanol	STP	36 mg/L	Fresh water	0,943 mg/L
CAS: 122-99-6	Soil	1,31 mg/kg	Marine water	0,094 mg/L
EC: 204-589-7	Intermittent	3,44 mg/L	Sediment (Fresh water)	7,237 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,724 mg/kg
ethanol	STP	580 mg/L	Fresh water	0,96 mg/L
CAS: 64-17-5	Soil	0,63 mg/kg	Marine water	0,79 mg/L
EC: 200-578-6	Intermittent	2,75 mg/L	Sediment (Fresh water)	3,6 mg/kg
	Oral	0,38 g/kg	Sediment (Marine water)	2,9 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	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg
CITRAL	STP	1,6 mg/L	Fresh water	0,007 mg/L
CAS: 5392-40-5	Soil	0,021 mg/kg	Marine water	0,001 mg/L
EC: 226-394-6	Intermittent	0,068 mg/L	Sediment (Fresh water)	0,125 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,013 mg/kg
LIMONENE	STP	1,8 mg/L	Fresh water	0,014 mg/L
CAS: 5989-27-5	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
EC: 227-813-5	Intermittent	Non-applicable	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Isopentyl acetate	STP	30 mg/L	Fresh water	0,011 mg/L
CAS: 123-92-2	Soil	0,06 mg/kg	Marine water	0,001 mg/L
EC: 204-662-3	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,335 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,034 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. 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

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min)	CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	CATII	EN 166:2002 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
	Work clothing	CATI		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	CATII	EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

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:

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

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 3,11 % weight



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

V.O.C. density at 20 °C: 33,03 kg/m³ (33,03 g/L)

Average carbon number: 4,8
Average molecular weight: 83,8 g/mol

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: Liquid

Appearance: Not available
Colour: Yellowish
Odour: Characteristic
Odour threshold: Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 205 °C Vapour pressure at 20 °C: 1447 Pa

Vapour pressure at 50 °C: 6787,47 Pa (6,79 kPa)

Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1061,3 kg/m³

Relative density at 20 °C: 1,061

Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: Non-applicable * 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 * Decomposition temperature: Non-applicable *

Flammability:

Flash Point: Non Flammable (>60 °C)

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 202 °C

Lower flammability limit: Non-applicable *
Upper flammability limit: Non-applicable *

Particle characteristics:

Melting point/freezing point:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

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

Non-applicable *

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Corrosive to metals: H290 May be corrosive to metals.

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable *

Non-applicable *

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Non-applicable *

Non-applicable *

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 indicated 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	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	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 hazard classes as defined in Regulation (EC) No 1272/2008:

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 hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous 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: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: ethanol (1); LIMONENE (3); Benzyl acetate (3); EUGENOL (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous 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 hazardous 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 hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. 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 hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus	
2-phenoxyethanol	LD50 oral	1394 mg/kg	Rat	
CAS: 122-99-6	LD50 dermal	>2000 mg/kg		
EC: 204-589-7	LC50 inhalation	>20 mg/L		
ethanol	LD50 oral	6200 mg/kg	Rat	
CAS: 64-17-5	LD50 dermal	20000 mg/kg	Rabbit	
EC: 200-578-6	LC50 inhalation	124,7 mg/L (4 h)	Rat	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LD50 oral	500 mg/kg	Rat	
CAS: 68424-85-1	LD50 dermal	>2000 mg/kg		
EC: 270-325-2	LC50 inhalation	>20 mg/L		
LINALOOL	LD50 oral	3000 mg/kg	Rat	
CAS: 78-70-6	LD50 dermal	5610 mg/kg	Rabbit	
EC: 201-134-4	LC50 inhalation	>20 mg/L		
CITRAL	LD50 oral	4950 mg/kg	Rat	
CAS: 5392-40-5	LD50 dermal	2250 mg/kg	Rabbit	
EC: 226-394-6	LC50 inhalation	>20 mg/L		
LIMONENE	LD50 oral	4400 mg/kg	Rat	
CAS: 5989-27-5	LD50 dermal	>5000 mg/kg	Rabbit	
EC: 227-813-5	LC50 inhalation	>20 mg/L		
Isopentyl acetate	LD50 oral	7400 mg/kg	Rat	
CAS: 123-92-2	LD50 dermal	>2000 mg/kg		
EC: 204-662-3	LC50 inhalation	>20 mg/L		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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:

Acute toxicity:

Identification		Concentration	Species	Genus
2-phenoxyethanol	LC50	344 mg/L (96 h)	Pimephales promelas	Fish
CAS: 122-99-6	EC50	488 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-589-7	EC50	443 mg/L (72 h)	Scenedesmus subspicatus	Algae
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	LC50	0,85 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 68424-85-1	EC50	0,016 mg/L (48 h)	Daphnia magna	Crustacean
EC: 270-325-2	EC50	0,026 mg/L (72 h)	Desmodesmus subspicatus	Algae
ethanol	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
CAS: 64-17-5	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-578-6	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae
CITRAL	LC50	6,1 mg/L (24 h)	Oryzias latipes	Fish
CAS: 5392-40-5	EC50	11 mg/L (24 h)	Daphnia magna	Crustacean
EC: 226-394-6	EC50	16 mg/L (72 h)	Scenedesmus subspicatus	Algae
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		
Isopentyl acetate	LC50	Non-applicable		
CAS: 123-92-2	EC50	42 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-662-3	EC50	Non-applicable		

Chronic toxicity:

Identification		Concentration	Species	Genus
2-phenoxyethanol	NOEC	23 mg/L	Pimephales promelas	Fish
CAS: 122-99-6 EC: 204-589-7	NOEC	9,43 mg/L	Daphnia magna	Crustacean
ethanol	NOEC	250 mg/L	Danio rerio	Fish
CAS: 64-17-5 EC: 200-578-6	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradab	ility
2-phenoxyethanol	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 122-99-6	COD	Non-applicable	Period	3 days
EC: 204-589-7	BOD5/COD	Non-applicable	% Biodegradable	93 %
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 68424-85-1	COD	Non-applicable	Period	Non-applicable
EC: 270-325-2	BOD5/COD	Non-applicable	% Biodegradable	60 %
ethanol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 64-17-5	COD	Non-applicable	Period	14 days
EC: 200-578-6	BOD5/COD	Non-applicable	% Biodegradable	89 %
LINALOOL	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 78-70-6	COD	Non-applicable	Period	28 days
EC: 201-134-4	BOD5/COD	Non-applicable	% Biodegradable	90 %
CITRAL	BOD5	0,56 g O2/g	Concentration	100 mg/L
CAS: 5392-40-5	COD	1,99 g O2/g	Period	28 days
EC: 226-394-6	BOD5/COD	0,28	% Biodegradable	92 %





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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradab	ility
LIMONENE	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 5989-27-5	COD	Non-applicable	Period	28 days
EC: 227-813-5	BOD5/COD	Non-applicable	% Biodegradable	71,4 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccur	mulation potential
2-phenoxyethanol	BCF	5
CAS: 122-99-6	Pow Log	1.13
EC: 204-589-7	Potential	Low
ethanol	BCF	3
CAS: 64-17-5	Pow Log	-0.31
EC: 200-578-6	Potential	Low
LINALOOL	BCF	
CAS: 78-70-6	Pow Log	2.97
EC: 201-134-4	Potential	
CITRAL	BCF	10
CAS: 5392-40-5	Pow Log	3.45
EC: 226-394-6	Potential	Low
LIMONENE	BCF	660
CAS: 5989-27-5	Pow Log	4.83
EC: 227-813-5	Potential	High
Isopentyl acetate	BCF	10
CAS: 123-92-2	Pow Log	
EC: 204-662-3	Potential	Low

12.4 Mobility in soil:

Identification	Absorpti	ion/desorption	Volati	lity
2-phenoxyethanol	Koc	41	Henry	1,57E-3 Pa·m³/mol
CAS: 122-99-6	Conclusion	Very High	Dry soil	No
EC: 204-589-7	Surface tension	Non-applicable	Moist soil	No
ethanol	Koc	1	Henry	4,61E-1 Pa·m³/mol
CAS: 64-17-5	Conclusion	Very High	Dry soil	Yes
EC: 200-578-6	Surface tension	2,339E-2 N/m (25 °C)	Moist soil	Yes
LIMONENE	Koc	6324	Henry	Non-applicable
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Non-applicable
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Non-applicable
Isopentyl acetate	Koc	70	Henry	59,78 Pa·m³/mol
CAS: 123-92-2	Conclusion	Very High	Dry soil	Non-applicable
EC: 204-662-3	Surface tension	2,388E-2 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 29*	detergents containing hazardous substances	Dangerous

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

HP14 Ecotoxic, HP6 Acute Toxicity, HP8 Corrosive

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. Waste should not be disposed of to drains. 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:



14.1 UN number or ID number: UN1903

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium

compounds, benzyl-C12-16-alkyldimethyl, chlorides)

14.3 Transport hazard class(es):

8 Labels: 14.4 Packing group: III

14.5 Environmental hazards: Yes

14.6 Special precautions for user

Special regulations: 274 Tunnel restriction code: F

Physico-Chemical properties: see section 9

Limited quantities: 5 I

Maritime transport in bulk 14.7 according to IMO

instruments:

Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number or ID number: UN1903

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium 14.2 UN proper shipping name: compounds, benzyl-C12-16-alkyldimethyl, chlorides)

14.3 Transport hazard class(es): Labels: R

14.4 Packing group: Η

14.5 Marine pollutant: Yes

14.6 Special precautions for user

274 Special regulations: EmS Codes: F-A. S-B Physico-Chemical properties: see section 9

Limited quantities: 1 L

Non-applicable Segregation group: Maritime transport in bulk Non-applicable

14.7

according to IMO instruments:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number: UN1903

14.2 UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium

compounds, benzyl-C12-16-alkyldimethyl, chlorides)

14.3 Transport hazard class(es):

Labels:

14.4 Packing group: II **14.5 Environmental hazards:** Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9

Maritime transport in bulk

Non-applicable

14.7 Maritime transport in bulk according to IMO instruments:

Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Composition of the active ingredients (Regulation (EU) No 528/2012): 2-phenoxyethanol (19.911%); ethanol (2%); Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (17.778%)

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: 2-phenoxyethanol (Product-type 1, 2, 4, 6, 13); Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (Product-type 1, 2, 3, 4, 8, 10, 11, 12, 22); ethanol (Product-type 1, 2, 4); GERANIOL (Product-type 18, 19)

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

Regulation (EC) No 648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC) $n^{0}648/2004$ on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Labelling for contents:

Component	Concentration interval
Non-ionic surfactants	% (w/w) >= 30
Cationic surfactants	15 <= % (w/w) < 30
perfumes	

Allergenic fragrances: CITRAL, EUGENOL, GERANIOL, LIMONENE (LIMONENE), LINALOOL.

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS	100	200

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays.
- —tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

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.

Other legislation:

The product could be affected by sectorial legislation



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SECTION 15: REGULATORY INFORMATION (continued)

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. 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 (COMMISSION REGULATION (EU) 2020/878).

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:

H290: May be corrosive to metals.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

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 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

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

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

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

Met. Corr. 1: H290 - May be corrosive to metals.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

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.

STOT SE 3: H335 - May cause respiratory irritation.

Advice related to training:

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: European 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 Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer



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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.

- END OF SAFETY DATA SHEET
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