

**Screenwash Concentrate**

Date of compilation: 25/07/2023

Revised: 9/01/2025

Version: 2 (Replaced 1)

**SECTION 1: IDENTIFICATION****1.1 Product identifier:** Screenwash Concentrate**Other means of identification:**

Not relevant

**1.2 Recommended uses and any restrictions on use or supply:**

Relevant uses (Consumer use): Car windscreen washer; automotive applications

Relevant uses (Professional users): Car windscreen washer; automotive applications

Relevant uses (Industrial user): Car windscreen washer; automotive applications

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

**1.3 Supplier's details:**

GARDX INTERNATIONAL LTD  
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PO6 4TY PORTSMOUTH - UNITED KINGDOM  
Phone: +44 (0)1243 376426  
product@gardx.co.uk  
www.gardx.co.uk

GardX New Zealand Limited  
739 Chapel Road,  
Howick,  
Auckland,  
New Zealand 2145

0800 242 739

**1.4 Emergency phone number:** PC No. 0800 764 766. CCN: 1012486. For 24/7 multilingual advice for spill, leak, fire, exposure or accident, call Chemtrec @ +65 3163 8374 or + 64 9 801 0034**SECTION 2: HAZARD IDENTIFICATION**

The product has been classified in accordance with the information contained in the suppliers' SDS and the additional information from tests carried out by said suppliers

**2.1 Classification of the substance or mixture:****Hazardous Substances (Hazard Classification) Notice 2020.:**

This product was classified in accordance with Hazardous Substances (Hazard Classification) Notice 2020.

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

Eye Irrit. 2: Eye irritation, Category 2, H319

Flam. Liq. 3: Flammable liquids, Category 3, H226

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

**2.2 Label elements, including precautionary statements:****Hazardous Substances (Hazard Classification) Notice 2020.:****Warning****Hazard statements:**

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

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

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

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

**Precautionary statements:**

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### SECTION 2: HAZARD IDENTIFICATION (continued)

P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264: Wash thoroughly after use.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/eye protection.  
P302+P352: IF ON SKIN: Wash with plenty of soap and 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.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P363: Wash contaminated clothing before reuse.  
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.  
P391: Collect spillage.  
P403+P235: Store in a well-ventilated place. Keep cool.  
P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.

#### Substances that contribute to the classification

2-methylisothiazol-3(2H)-one (CAS: 2682-20-4) (<10 %)

#### Additional labeling:

Read label before use

#### 2.3 Other hazards which do not result in classification:

Not relevant

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Not available

#### 3.2 Mixtures:

**Chemical description:** Aqueous mixture composed of alcohols and colourants

#### Components:

In accordance with Part B: Concentration cut-offs for ingredients in mixtures for purpose of section 3 of Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 68891-38-3	<b>Alcohols, C12-14(even numbered), ethoxylated &lt; 2.5 EO, sulfates, sodium salts</b> Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	<10 %
CAS: 64-17-5	<b>ethanol</b> Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	<10 %
CAS: 137-16-6	<b>Sodium N-lauroylsarcosinate</b> Acute Tox. 2: H330; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	<10 %
CAS: 140-11-4	<b>Benzyl acetate</b> Aquatic Chronic 3: H412; Flam. Liq. 4: H227	<10 %
CAS: 2372-82-9	<b>N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine</b> Acute Tox. 3: H301; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314; STOT RE 2: H373 - Danger	<10 %
CAS: 2682-20-4	<b>2-methylisothiazol-3(2H)-one</b> Acute Tox. 2: H330; Acute Tox. 3: H301+H311; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger	<10 %
CAS: 2634-33-5	<b>1,2-benzisothiazol-3(2H)-one</b> Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	<10 %
CAS: 67-63-0	<b>propan-2-ol</b> Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	<10 %
CAS: 100-51-6	<b>benzyl alcohol</b> Acute Tox. 4: H302; Eye Irrit. 2: H319 - Warning	<10 %

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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification	Concentration
CAS: 78-70-6	<b>Linalool</b> Eye Irrit. 2: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	<10 %
CAS: 1310-73-2	<b>sodium hydroxide</b> Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1A: H314 - Danger	<10 %

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

#### SECTION 4: FIRST-AID MEASURES

##### 4.1 First aid instructions according to each relevant route of exposure;:

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, it is recommended in case of intoxication symptoms 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:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

##### 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, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of 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, acute and delayed:

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

##### 4.3 Indication of medical attention and its urgency:

Not relevant

#### SECTION 5: FIRE-FIGHTING MEASURES

##### 5.1 Information on the appropriate type of extinguishers or fire-fighting agents:

##### Appropriate type of extinguishers or fire-fighting agents:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

##### Inappropriate type of extinguishers or fire-fighting agents:

Water jet

##### 5.2 Advice on specific hazards that may arise from the substance:

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 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

##### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, 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:

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**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)****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 from accidental spills and release;:**

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 Advice on how to contain and clean up a spill or release:**

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**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. 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**

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 and with the minimum requirements for protecting the security and health of workers. 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.- Specific storage requirements**

Minimum Temp.: 4 °C

Maximum Temp.: 40 °C

**B.- General conditions for storage**

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

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#### SECTION 7: HANDLING AND STORAGE (continued)

##### 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 Occupational exposure limits:

Substances whose workplace exposure standards (WES) have to be monitored in the work environment:

Workplace exposure standards (WES) and biological exposure indices, Edition 12-1:

Identification	Occupational exposure limits		
sodium hydroxide CAS: 1310-73-2	TWA		
	STEL		2 mg/m <sup>3</sup>
ethanol CAS: 64-17-5	TWA	200 ppm	380 mg/m <sup>3</sup>
	STEL	800 ppm	1520 mg/m <sup>3</sup>
propan-2-ol CAS: 67-63-0	TWA	400 ppm	983 mg/m <sup>3</sup>
	STEL	500 ppm	1230 mg/m <sup>3</sup>


##### 8.2 Engineering controls:

###### A.- Identification of the specific types of personal protective equipment


As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection 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	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A2)	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	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Splashing)	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	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

###### E.- Bodily protection


Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.

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

Pictogram	PPE	Remarks
 Mandatory complete body protection	Antistatic and fireproof protective clothing	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	Replace boots at any sign of deterioration.

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

**Environmental exposure controls:**

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties:**

**Appearance:**

Physical state at 20 °C:	Liquid
Appearance:	Transparent
Colour:	Red
Odour:	Fruity
Odour threshold:	Not relevant *

**Volatility:**

Initial boiling point and boiling range:	100 °C
Vapour pressure at 20 °C:	2399 Pa
Vapour pressure at 50 °C:	12588.29 Pa (12.59 kPa)
Evaporation rate at 20 °C:	Not relevant *

**Product description:**

Density at 20 °C:	Not relevant *
Relative density at 25 °C:	0.997 - 1.007
Dynamic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	Not relevant *
Concentration:	Not relevant *
pH:	9 - 10 (at 100 %)
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Soluble
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *

**Flammability:**

Flash Point:	59 °C
Flammability (solid, gas):	Not relevant *

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

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Autoignition temperature: 235 °C  
Lower flammability limit: Not relevant \*  
Upper flammability limit: Not relevant \*  
**Particle characteristics:**  
Median equivalent diameter: Not relevant \*

#### 9.2 Other information:

##### Information with regard to physical hazard classes:

Explosive properties: Not relevant \*  
Oxidising properties: Not relevant \*  
Corrosive to metals: Not relevant \*  
Heat of combustion: Not relevant \*  
Aerosols-total percentage (by mass) of flammable components: Not relevant \*

##### Other safety characteristics:

Surface tension at 20 °C: Not relevant \*  
Refraction index: Not relevant \*

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

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Chemical reactivity:

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

#### 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 List of conditions to avoid or prevent a hazardous situation:

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 Information on incompatible substances or materials:

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

#### 10.6 Information on 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 (CO<sub>2</sub>), 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

The product has been classified in accordance with the information contained in the suppliers' SDS and the additional information from tests carried out by said suppliers

##### Dangerous health implications:

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

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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

**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: 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.

**B- Inhalation (acute effect):**

- Acute toxicity : 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.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

**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 hazardous for the effects mentioned. For more information see section 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: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

**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. However, it does 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, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**H- Aspiration hazard:**

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.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts CAS: 68891-38-3	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
2-methylisothiazol-3(2H)-one CAS: 2682-20-4	LD50 oral	>120 mg/kg	Rat
	LD50 dermal	>242 mg/kg	Rat
	LC50 inhalation mist	0.34 mg/L (4 h)	Rat
Sodium N-lauroylsarcosinate CAS: 137-16-6	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation mist	0.5 mg/L	Rat
ethanol CAS: 64-17-5	LD50 oral	6200 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation vapour	124.7 mg/L	Rat

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#### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS: 2372-82-9	LD50 oral	261 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Benzyl acetate CAS: 140-11-4	LD50 oral	2490 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5	LD50 oral	500 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
propan-2-ol CAS: 67-63-0	LD50 oral	>5840 mg/kg	Rat
	LD50 dermal	>13900 mg/kg	Rabbit
	LC50 inhalation vapour	>25 mg/L (6 h)	Rat
benzyl alcohol CAS: 100-51-6	LD50 oral	1620 mg/kg	Rat
	LD50 dermal	2500 mg/kg	
	LC50 inhalation mist	3.3 mg/L	Rat
Linalool CAS: 78-70-6	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
sodium hydroxide CAS: 1310-73-2	LD50 oral	>2000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation dust	>5 mg/L	

#### SECTION 12: ECOLOGICAL INFORMATION

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

Harmful to aquatic life with long lasting effects.

The product has been classified in accordance with the information contained in the suppliers' SDS and the additional information from tests carried out by said suppliers

##### 12.1 Ecotoxicity (aquatic and terrestrial):

###### Acute toxicity:

Identification	Concentration		Species	Genus
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts CAS: 68891-38-3	LC50	7.1 mg/L (96 h)	Danio rerio	Fish
	EC50	7.4 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	27 mg/L (72 h)	Scenedesmus subspicatus	Algae
ethanol CAS: 64-17-5	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae
Benzyl acetate CAS: 140-11-4	LC50	Not relevant		
	EC50	17 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS: 2372-82-9	LC50	0.431 mg/L (96 h)	Danio rerio	Fish
	EC50	0.078 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	0.015 mg/L (96 h)	Pseudokirchneriella subcapitata	Algae
2-methylisothiazol-3(2H)-one CAS: 2682-20-4	LC50	4.77 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	0.934 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5	LC50	2.18 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	2.9 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
propan-2-ol CAS: 67-63-0	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
Linalool CAS: 78-70-6	LC50	27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	59 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
sodium hydroxide CAS: 1310-73-2	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
	EC50	33 mg/L	Crangon crangon	Crustacean
	EC50	Not relevant		

#### Chronic toxicity:

Identification	Concentration		Species	Genus
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts CAS: 68891-38-3	NOEC	0.2 mg/L	Oncorhynchus mykiss	Fish
	NOEC	0.27 mg/L	Daphnia magna	Crustacean
ethanol CAS: 64-17-5	NOEC	250 mg/L	Danio rerio	Fish
	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean
Benzyl acetate CAS: 140-11-4	NOEC	0.92 mg/L	Oryzias latipes	Fish
	NOEC	Not relevant		
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS: 2372-82-9	NOEC	Not relevant		
	NOEC	0.024 mg/L	Daphnia magna	Crustacean
benzyl alcohol CAS: 100-51-6	NOEC	48.897 mg/L	N/A	Fish
	NOEC	51 mg/L	Daphnia magna	Crustacean

#### 12.2 Persistence and degradability:

##### Substance-specific information:

Identification	Degradability		Biodegradability	
Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts CAS: 68891-38-3	BOD5	Not relevant	Concentration	10.5 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
ethanol CAS: 64-17-5	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	89 %
Benzyl acetate CAS: 140-11-4	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	100 %
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine CAS: 2372-82-9	BOD5	Not relevant	Concentration	0.02 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	73.84 %
2-methylisothiazol-3(2H)-one CAS: 2682-20-4	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	55.8 %
1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	0 %
propan-2-ol CAS: 67-63-0	BOD5	1.19 g O2/g	Concentration	100 mg/L
	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %
benzyl alcohol CAS: 100-51-6	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	94 %

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#### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability	Biodegradability
Linalool	BOD5	Not relevant
CAS: 78-70-6	COD	Not relevant
	BOD5/COD	Not relevant
	Concentration	100 mg/L
	Period	28 days
	% Biodegradable	90 %

#### 12.3 Potential to be bioaccumulative:

##### Substance-specific information:

Identification	Bioaccumulation potential
ethanol	BCF
CAS: 64-17-5	Pow Log
	Potential
Benzyl acetate	BCF
CAS: 140-11-4	Pow Log
	Potential
2-methylisothiazol-3(2H)-one	BCF
CAS: 2682-20-4	Pow Log
	Potential
1,2-benzisothiazol-3(2H)-one	BCF
CAS: 2634-33-5	Pow Log
	Potential
propan-2-ol	BCF
CAS: 67-63-0	Pow Log
	Potential
benzyl alcohol	BCF
CAS: 100-51-6	Pow Log
	Potential
Linalool	BCF
CAS: 78-70-6	Pow Log
	Potential

#### 12.4 Mobility in soil:

Identification	Absorption/desorption	Volatility
ethanol	Koc	Henry
CAS: 64-17-5	Conclusion	Dry soil
	Surface tension	Moist soil
Benzyl acetate	Koc	Henry
CAS: 140-11-4	Conclusion	Dry soil
	Surface tension	Moist soil
2-methylisothiazol-3(2H)-one	Koc	Henry
CAS: 2682-20-4	Conclusion	Dry soil
	Surface tension	Moist soil
propan-2-ol	Koc	Henry
CAS: 67-63-0	Conclusion	Dry soil
	Surface tension	Moist soil
benzyl alcohol	Koc	Henry
CAS: 100-51-6	Conclusion	Dry soil
	Surface tension	Moist soil

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

Not relevant

#### 12.6 Other adverse effects:

Not described

#### SECTION 13: DISPOSAL CONSIDERATIONS

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**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**
**13.1 Appropriate and achievable disposal methods:**
**Special precautions to be taken during disposal:**

Consult the authorized waste service manager on the assessment and disposal operations. 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-hazardous residue. Waste should not be disposed of to drains. See epigraph 6.2.

**Regulations related to waste management:**

Legislation related to waste management:

Consolidated Imports and Exports (Restrictions) Prohibition Order (No 2) 2004  
 Consolidated Hazardous Substances (Disposal) Notice 2017

**SECTION 14: TRANSPORT INFORMATION**
**Transport of dangerous goods by land:**

With regard to NZS 5433.1:2012 Transport of dangerous goods on land



- |   |                                    |
|---|------------------------------------|
| <b>14.1 UN number:</b>  | UN1993                             |
| <b>14.2 UN proper shipping name:</b>  | FLAMMABLE LIQUID, N.O.S. (ethanol) |
| <b>14.3 UN dangerous goods class and subsidiary risk:</b>                             | 3                                  |
| <b>Labels:</b>  | 3                                  |
| <b>14.4 UN Packing Group:</b>   | III                                |
| <b>14.5 Environmental hazards:</b>  | No                                 |
| <b>14.6 Special precautions for user</b>  |                                    |
| <b>Physico-Chemical properties:</b>   | see section 9                      |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b> | Not relevant                       |

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



- |   |                                    |
|---|------------------------------------|
| <b>14.1 UN number:</b>  | UN1993                             |
| <b>14.2 UN proper shipping name:</b>  | FLAMMABLE LIQUID, N.O.S. (ethanol) |
| <b>14.3 UN dangerous goods class and subsidiary risk:</b>                             | 3                                  |
| <b>Labels:</b>  | 3                                  |
| <b>14.4 UN Packing Group:</b>   | III                                |
| <b>14.5 Marine pollutant:</b>   | No                                 |
| <b>14.6 Special precautions for user</b>  |                                    |
| <b>Special regulations:</b>   | 274, 223, 955                      |
| <b>EmS Codes:</b>   | F-E, S-E                           |
| <b>Physico-Chemical properties:</b>   | see section 9                      |
| <b>Limited quantities:</b>  | 5 L                                |
| <b>Segregation group:</b>   | Not relevant                       |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b> | Not relevant                       |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:

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**SECTION 14: TRANSPORT INFORMATION (continued)**


<b>14.1 UN number:</b>	UN1993
<b>14.2 UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S. (ethanol)
<b>14.3 UN dangerous goods class and subsidiary risk:</b>	3
<b>Labels:</b>	3
<b>14.4 UN Packing Group:</b>	III
<b>14.5 Environmental hazards:</b>	No
<b>14.6 Special precautions for user</b>	
<b>Physico-Chemical properties:</b>	see section 9
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not relevant

**SECTION 15: REGULATORY INFORMATION**
**15.1 Safety, health and environmental regulations specific for the product in question:**

- New Zealand Inventory of Chemicals (NZIoC): *Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts (68891-38-3) ; ethanol (64-17-5) ; Sodium N-lauroylsarcosinate (137-16-6) ; Benzyl acetate (140-11-4) ; N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9) ; 2-methylisothiazol-3(2H)-one (2682-20-4) ; 1,2-benzisothiazol-3(2H)-one (2634-33-5) ; propan-2-ol (67-63-0) ; benzyl alcohol (100-51-6) ; Linalool (78-70-6) ; sodium hydroxide (1310-73-2)*
- Substances listed in the Montreal Protocol: Not relevant
- Substances listed in the Rotterdam Convention: Not relevant
- Substances listed in the Stockholm Convention: Not relevant

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

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Relevant regulatory requirements:**

Health and Safety at Work (Hazardous Substances) Regulations 2017  
 Health and Safety at Work Act 2015  
 Consolidated Hazardous Substances (Labelling) Notice 2017  
 Consolidated Hazardous Substances (Packaging) Notice 2017  
 Consolidated Hazardous Substances (Hazardous Property Controls) Notice 2017  
 Consolidated Hazardous Substances (Importers and Manufacturers) Notice 2015

**SECTION 16: OTHER INFORMATION**
**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Schedule: Content and format of safety data sheets (clause 7) of Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017

**Texts of the legislative phrases mentioned in section 2:**

- H319: Causes serious eye irritation.
- H412: Harmful to aquatic life with long lasting effects.
- H317: May cause an allergic skin reaction.
- H226: Flammable liquid and vapour.

**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

**Hazardous Substances (Hazard Classification) Notice 2020.:**

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**SECTION 16: OTHER INFORMATION (continued)**

Acute Tox. 2: H330 - Fatal if inhaled.  
Acute Tox. 3: H301 - Toxic if swallowed.  
Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin.  
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.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
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. 4: H227 - Combustible liquid.  
Met. Corr. 1: H290 - May be corrosive to metals.  
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.  
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. 1A: H317 - May cause an allergic skin reaction.  
Skin Sens. 1B: H317 - May cause an allergic skin reaction.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).  
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Advice related to training:**

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

**Principal bibliographical sources:**

<https://www.epa.govt.nz/>

**Abbreviations and acronyms:**

HSNO Act: Hazardous substances and new organisms Act  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
CL50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon  
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, 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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