

Revision date 08-Dec-2023

# SAFETY DATA SHEET

Version 2

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Recommended use of the chemical and restrictions on use			
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### Section 2: Hazard identification

### GHS Classification

Flammable liquids	Category 3
Chronic aquatic toxicity	Category 3

#### Label elements



Signal word Warning

### Hazard statements

Flammable liquid and vapor Harmful to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Use explosion-proof electrical/ ventilating/ lighting/ equipment Avoid release to the environment Ground and bond container and receiving equipment Use non-sparking tools Take action to prevent static discharges Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Wear protective gloves/clothing and eye/face protection

### Precautionary Statements - Response

### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower] **Fire** 

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other hazards which do not result in classification

No information available.

### Section 3: Composition/information on ingredients

Chemical name		CAS No.	Weight-%		
Ethanol		64-17-5		20 - 30%	
Non-hazardous ingredients	Proprietary		Balance	]	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### Section 4: First-aid measures

### Description of first aid measures

Inhalation	Remove to fresh air.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.	
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
Ingestion	Rinse mouth.	
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

### Section 5: Fire-fighting measures

### Suitable extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Special exposure hazards in a fire		
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	
Protective equipment and precautions for firefighters		

### Protective equipment and precautions for firefighters

**Special protective equipment and** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. **precautions for fire-fighters** 

### Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

 Personal precautions
 Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take

	precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.		
Other information	Ventilate the area.		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.		
Methods and material for containment and cleaning up			
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.		
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.		
Precautions to prevent secondary hazards			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

# Section 7: Handling and storage

### Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.		
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.		
Incompatible materials	None known based on information supplied.		

### Section 8: Exposure controls/personal protection

### Control parameters

### **Exposure Limits**

Chemical name New Zealand Australia ACGIH TLV United Kingdom
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Ethanol 64-17-5	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>
04-17-5	TWA. 1860 mg/m <sup>e</sup>	TWA. 1860 mg/ms		STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup>
Biological occupational exposure limits       This product, as supplied, does not contain any hazardous materials with biological limits         Biological occupational exposure limits       This product, as supplied, does not contain any hazardous materials with biological limits				
Appropriate engineering controls				
Engineering controls	ontrols Showers Eyewash stations Ventilation systems.			
Individual protection measures, such as personal protective equipment				
Eye/face protection	Tight sealing	g safety goggles.		
Hand protection	Wear suitab	Wear suitable gloves. Impervious gloves.		
Skin and body protection	n Wear suitab	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.		

Despiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are
Respiratory protection	exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

# Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

internation on bable physical and enernical properties				
Physical state	Liquid			
Appearance	Blue			
Color	No information available			
Odor	None.			
Odor threshold	No information available			
Property_	Values			

<u>Property</u> pH	<u>Values</u> 7.5	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	eNo data available	None known
Flash point	36 °C	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits	Ne dete evellete	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	363 °C	
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Antistatic boots.

Explosive properties Oxidizing properties	No information available. No information available.
Other information Softening point Molecular weight	No information available No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available
Particle characteristics	No information available

### Section 10: Stability and reactivity

<b>Reactivity</b>			
Reactivity	No information available.		
Chemical stability			
Stability	Stable under normal conditions.		
Explosion data			
Sensitivity to mechanical impact	None.		
Sensitivity to static discharge	Yes.		
Possibility of hazardous reactions			
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid			
Conditions to avoid	Heat, flames and sparks.		
Incompatible materials			
Incompatible materials	None known based on information supplied.		
Hazardous decomposition products			
Hazardous decomposition products None known based on information supplied.			
Section 11: Toxicological information			
Acute toxicity			
Information on likely routes of expo	osure		
Product Information			
Inhalation	Specific test data for the substance or mixture is not available.		
Eye contact	Specific test data for the substance or mixture is not available.		

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms No information available.

### Acute toxicity

Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	35,300.00	mg/kg
ATEmix (dermal)	99,999.00	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-vapor)	99,999.00	mg/l
ATEmix (inhalation-dust/mist)	584.50 mg	g/l

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat)4 h
			= 133.8 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available.
No information available.
No information available.
No information available.

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	<u> </u>	New Zealand	IARC
Ethanol - 64-17-5		-	Х
Reproductive toxicity	No informatio	on available.	
STOT - single exposure	No informatio	on available.	
STOT - repeated exposure	No informatio	on available.	
Aspiration hazard	No informatio	on available.	
Data used to identify the health effects	Refer to Sect SDS.	tion 16 for Key literature references and	sources for data used to compile the

# Section 12: Ecological information

### **Ecotoxicity**

Aquatic ecotoxicity	Harmful to aquatic life with long lasting effects.
Unknown aquatic toxicity	$0\ \%$ of the mixture consists of component(s) of unknown hazards to the aquatic

### environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethanol	-	LC50: 12.0 - 16.0mL/L (96h,	LC50: 9268 - 14221mg/L (48h,
		Oncorhynchus mykiss)	Daphnia magna)
		LC50: >100mg/L (96h,	EC50: =2mg/L (48h, Daphnia
		Pimephales promelas)	magna)
		LC50: 13400 - 15100mg/L (96h,	
		Pimephales promelas)	

### Terrestrial ecotoxicity

Chemical name	Earthworm	Avian	Honeybees
Ethanol	Acute Toxicity: LC50 0.1 - 1 mg/cm2 (Eisenia foetida, 48 h filter paper)	-	_

Persistence and degradability

# Bioaccumulative potential

### Bioaccumulation

#### **Component Information**

Chemical name	Partition coefficient
Ethanol	-0.35

### Mobility in soil

Mobility

No information available.

No information available.

### Other adverse effects

No information available.

# Section 13: Disposal considerations

### Waste treatment methods

Waste from residues/unused products	<ul> <li>Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act.</li> <li>Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste.</li> <li>Flammable substances - may not be disposed of into or onto a landfill or sewage facility.</li> <li>They may only be burnt in certain situations.</li> <li>Flammable gases, liquids and solids may only be discharged into the environment or landfill as waste if the substance will not at any time come into contact with any explosives, oxidising gases, liquids or solids or organic peroxides; and there will be no ignition source in the vicinity of the disposal site at any time and if the substance were to ignite, no person, or place where a person may legally be, would be exposed to an unsafe level of heat radiation.</li> <li>Environmentally hazardous substances – if the substance, or if it contains a component that</li> </ul>
	is hazardous to the aquatic environment or bioaccumulative and not rapidly degradable, then any component that is bioaccumulative and not rapidly degradable must be removed. The product may only be discharged into the environment if an environmental exposure limit has been set for the substance (or a component of the substance); and the discharge does

not, after reasonable mixing, result in the concentration of the substance in an environmental medium exceeding the environmental exposure limit.

**Contaminated packaging** For packages that have been in direct contact with hazardous substances, the person must ensure that the package is rendered incapable of containing any substance. It must be disposed of in a manner that is consistent with the requirements for disposal of the substance that it contained, taking into account the material the package is manufactured from.

Packages may only be reused or recycled if:

- the substance has a physical hazard other than corrosive to metal, and has been treated to remove any residual contents of the hazardous substance;

- or for substances that have a health or environmental hazard, or corrosive to metal, the contents of the residue in the package are below the threshold for the substance to be classified as hazardous in the Hazardous Substances (Hazard Classification) Notice 2020.

### Section 14: Transport information

<u>IATA</u>	
UN number or ID number	UN1170
Proper shipping name	ETHANOL SOLUTION
Transport hazard class(es)	3
Packing group	II

### IMDG

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

Section 15: Regulatory information			
Regulatory information			
EPA New Zealand HSNO approval code or group standard	To be determined		
National regulations	There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances		
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information		

Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories	
NZIoC	Contact supplier for inventory compliance status.
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

Legend:

NZIOC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### Section 16: Other information

Key or legend to	Environmental, Hea 978-927-5054 08-Dec-2023 SDS is valid 3 years ed data since last publication. abbreviations and acronyms used in t <u>EXPOSURE CONTROLS/PERSONAL</u> TWA (time-weighted average) Maximum limit value Carcinogen	s from revision da	ite. Contact info@neb.com for latest revision heet STEL (Short Term Exposure Limit) Skin designation		
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization					

### Disclaimer

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**End of Safety Data Sheet**