SAFETY DATA SHEET

Glycerine

Preparation Date: 12-Jul-2018
Date of Next Revision: *11-Jul-2023*

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Glycerine
Item#: NZ0015
Recommended use
Uses advised against Restricted to professional users

Supplier
DeLaval Manufacturing
PO Box 15-205
Kells Place
Hamilton
New Zealand

Telephone Number
+64 7 847 9904
(8am - 4:30pm Mon-Fri)

Emergency Telephone Number
0800 764 766 (National Poison Centre)
0800 243 622 CHEMCALL

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture according to GHS

Not Hazardous. Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

2.2. Label Elements

Precautionary statements P102 - Keep out of reach of children

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight %
Glycerol	56-81-5	> 96%

4. FIRST AID MEASURES

Workplace Facilities Eyewash bottle with clean water

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids
Get medical attention if irritation develops and persists

Skin contact
Remove contaminated clothing and shoes
Wash off with soap and plenty of water
Rinse skin with water/shower
Get medical attention if irritation develops and persists

Inhalation If fumes from reactions are inhaled, move to fresh air immediately

Ingestion	Drink 1 or 2 glasses of water. Contact the National Poisons Centre 0800 (764 766) or a doctor if you feel unwell.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Hazchem Code	No Hazchem Code allocated
Flammable Properties	Combustible material.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water. Water spray. Dry powder. Foam. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	No information available.
Specific hazards arising from the chemical	Combustible material. Heating or fire can release toxic gas. Decomposition will release oxygen which may increase the intensity of a fire. Burning produces irritant fumes. Heating of containers may cause pressure rise, with risk of bursting.
Protective Equipment and Precautions for Firefighters	Use personal protective equipment. Cool containers / tanks with water spray. Standard procedure for chemical fires. Evacuate personnel to safe areas. Any action only if without personal risk. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Material can create slippery conditions. Do not breathe vapours.
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Should not be released into the environment.
Methods for cleaning up	Take up mechanically and collect in suitable container for disposal. Pick up and transfer to properly labelled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Do not use sparking tools. Clean contaminated surface thoroughly. Rinse with plenty of water.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Store in a tightly closed container. Wash hands after handling.
Storage	Keep container tightly closed. Keep away from heat and sources of ignition. Store in original container. Keep away from food, drink, and animal feedstuffs. Store at room temperature. Keep at temperatures above 30°C. Keep in a dry, cool and well-ventilated place. Keep away from possible contact with incompatible substances.
Type of Container/Package	Store in original container

Handle and store according to AS/NZS Standards and the Responsible Care Management Systems: Managers Handbook.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	OSH (New Zealand, 1/2002)
Glycerol	TWA: 10 mg/m^3

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Safety glasses with side-shields.

Skin Protection Wear protective gloves/clothing, Apron, Wear overalls, rubber gloves, gumboots, and PVC apron

Hand Protection Protective gloves Rubber gloves nitrile rubber PVC

Respiratory Protection No special protective equipment required.

General Hygiene Considerations
Keep away from food, drink, and animal feeding stuffs. When using, do not eat, drink, or smoke. Contaminated work clothing should not be allowed out of the work place. Avoid contact with skin, eyes, and clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless
Physical state	Liquid
Odor	Odorless
pH	approx. (1 %) 7
Vapor Pressure	No data available
Vapor Density	No data available
Flash Point	160 °C
Autoignition Temperature	370 °C
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Boiling Point/Range	290 °C
Freezing Point/Range	No data available
Melting Point/Range	18 °C
Upper Explosion Limit	19%
Lower Explosion Limit	3%
Water Solubility	Miscible with water
Solubility	No information available
Solubility in other solvents	No data available
Specific Gravity	1.26 @ 20°C
Molecular Weight	92.1

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid Heat. Keep away from direct sunlight. Avoid static electric discharge. Store in a dry place and protect from moisture. Do not freeze.

Incompatible Materials strong oxidizing agents

Hazardous decomposition products Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation No information available.
Eye contact No information available.
Skin contact No information available.
Ingestion No information available.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerol	= 12600 mg/kg (Rat)	21900 mg/kg (Rat)	> 570 mg/m^3 (Rat) 1 h

Irritation No information available
Corrosivity No information available.
Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity There are no known carcinogenic chemicals in this product.
Reproductive Effects No information available.
Developmental Effects No information available.
STOT - single exposure No information available
STOT - repeated exposure No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Glycerol		51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static		500: 24 h Daphnia magna mg/L EC50

Persistence and degradability Readily biodegradable DOD5: 82% of ThOD and 86% of COD. Readily biodegradable under aerobic conditions.

Bioaccumulation/Accumulation log Kow: -1.76 . Glycerine is expected to have a low potential for sorption to soil and is not expected to bioaccumulate.
Calculated bioconcentration factor : 3.162.

Mobility Soluble

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Hazchem Code No Hazchem Code allocated

15. REGULATORY INFORMATION

ERMA Reference ERMA User Guide to the HSNO Controls, which links to the Hazardous Substances Regulations 2001

Other information REGULATIONS
Non-hazardous
Glycerine CAS Number 56-81-5 is listed in the New Zealand Inventory of Chemicals.
Controls applying to this substance are:
None, not hazardous.
Glycerine (CAS: 56- 81- 5) is found on the following regulatory lists; CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP. IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances International Council of Chemical Associations (ICCA) - High Production Volume List. New Zealand Workplace Exposure Standards (WES). OECD Representative List of High Production Volume (HPV) Chemicals.

16. OTHER INFORMATION

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References

Land Transport (Dangerous Goods) Rule 45001:2005
Hazardous Substances Regulations 2001:
- Minimum Degrees of Hazard
- Classification
- Classes 1 to 5 Controls
- Classes 6, 8 and 9 Controls
- Packaging Regulations
- Identification Regulations
- Dispoal Regulations
- Emergency Management
- Identification Regulations
- Disposal Regulations

Health and Safety in Employment Regulations 1995
User Guide to the HSNO Thresholds and Classifications
OSH Workplace Exposure Standards January 2002
NZCIC Approved Code of Practice - Preparation of Safety Data Sheets
Signage for premises storing hazardous substances and dangerous goods

Disclaimer

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End of SDS