

GLYCERINE

Section 1. Identification of the material and the supplier

Product: **GLYCERINE**
 Product Use: Industrial, Lubricants, Personal Care, Food Additives, Surfactants
 Restriction of Use: Refer to Section 15
 New Zealand Supplier: **Deosan Manufacturing Ltd**
 Address: 20 Seddon Street
 Waharoa
 New Zealand
 Email: info@deosan.co.nz
 Telephone: 0800 336 726 (0800 DEOSAN) / +64 7 888 5628
24 Hour Emergency Contact: 0800 243 622 (CHEMCALL)
Emergency No: 0800 764 766 (National Poison Centre)
 Date of SDS Preparation: 12 June 2025

Section 2. Hazards Identification

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	CAS NUMBER.	Wt%
Glycerine	56-81-5	100

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse eyes with water for several minutes. Seek medical assistance if needed.
 If on Skin: Wash skin and hair with running water. Seek medical attention if irritation persists.
 If Swallowed: If swallowed do NOT induce vomiting. Give water to rinse out mouth, then spit out rinse water. Drink large quantities of water. Seek medical attention if needed.
 If Inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing. Transport to hospital, or doctor without delay with a copy of this safety data sheet if problems persist.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include carbon dioxide (CO ₂), other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
Suitable Extinguishing media	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions: water, water spray, dry powder, foam, carbon dioxide (CO ₂).
Precautions for firefighters and special protective clothing	Fire-fighters should wear full protective clothing suitable for chemical hazards with self-contained breathing apparatus. The substance must be contained and prevented from entering drains and water courses in all circumstances. Alert Fire Brigade and tell them location and nature of hazard. Clear fire area of all non-emergency personnel. Prevent, by any means available, spillage from entering drains or water course. Use firefighting procedures suitable for surrounding area. Equipment should be thoroughly decontaminated after use.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For emergency responders:

Wear protective equipment detailed in Section 8. Keep unnecessary people away from the hazardous area.

Environmental precautions:

Prevent, by any means available, spillage from entering drains or water course.

Methods and material for containment and cleaning up:

MINOR SPILLS

Clean up all spills immediately. Very slippery when spilt.

Remove all ignition sources.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact by using protective equipment.

Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable labelled container for waste disposal.

MAJOR SPILLS

Very slippery when spilt. Clear area of personnel.

Alert Fire Brigade and tell them location and nature of hazard.

Remove all ignition sources.

Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite.

Collect recoverable product into labelled containers for recycling.

Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

Dispose of as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Operators should be trained in procedures for safe use of this material.
- Contact lenses should not be worn when working with this chemical.
- Avoid all personal contact. Implement controls to reduce risk of exposure, such as closed systems and isolated operations.
- Wear eye protection. Use appropriate personal protective equipment. See section 8 of the SDS.
- When handling, DO NOT eat, drink or smoke.

- Keep containers securely sealed when not in use. Avoid physical damage to containers.
- Use good occupational work practice. Always wash hands with soap and water after handling.

Precautions for Storage:

- Store away from incompatible materials and foodstuff containers.
- Keep out of reach of children.
- Store in original containers.
- Keep containers securely sealed to protect from moisture contamination.
- Store in a cool, dry, well-ventilated area.
- Protect containers against physical damage and check regularly for leaks.
- Suitable Packaging: Plastic (HDPE) drum.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Glycerin (mist)	[56-81-5]	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15TH EDITION.

Engineering Controls

No specific ventilation systems are required.

Personal Protection Equipment



Eyes	Use approved chemical safety goggles and a full-face shield. Refer to Personal eye protection Part 1: Eye and face protectors for occupational applications, Australian/New Zealand Standard: AS/NZS 1337.1:2010. Ensure that there is ready access to eye wash unit.
Skin	People with an allergy to glycerine should wear impervious protective clothing, including chemical resistant boots, gloves, apron or overalls as appropriate to prevent skin contact. Refer to AS/NZS 2161.1:2016 Occupational Protective Gloves – Selection, use and maintenance; AS/NZS 2210.1:2010 for Safety footwear; AS/NZS 4501.1:2008 Occupational protective clothing – Guidelines on the selection, use, care and maintenance of protective clothing.
Respiratory	No specific exposure controls are needed.

Section 9 Physical and Chemical Properties

Appearance	Very viscous Liquid
Colour	Colourless
Odour	None
Odour Threshold	Not available
pH	~7.0
Boiling Point	290°C
Melting Point	18°C
Freezing Point	Not available
Flash Point	160°C

Flammability	Non-flammable
Upper and Lower Explosive Limits	3% - 19%
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	1.2 – 1.3 g/ml
Relative Density	3.17
Bulk Density	~1260 kg/cm ³
Water Solubility	Miscible
Partition Coefficient:	Not available
Auto-ignition Temperature	370°C
Decomposition Temperature	290°C
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Molecular Weight	92.1

Section 10. Stability and Reactivity

Stability of Substance	Product is stable under normal conditions of use, storage, and temperature.
Possibility of hazardous reactions	None.
Conditions to Avoid	Avoid excessive heat, direct sunlight, moisture, high temperatures. Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Incompatible Materials	Avoid reaction with strong oxidising agents, alkali metal hydrides, potassium chlorate and potassium permanganate as an explosive or violent reaction may occur.
Hazardous Decomposition Products	Thermal decomposition can lead to release of Acrolein if heated above 280°C.

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic. May cause nausea.
Dermal	This product is not classified as acutely toxic.
Inhalation	This product is not classified as acutely toxic.
Eye	This product is not classified as an eye irritant/corrosive. The material may be irritating to the eye, with prolonged contact causing inflammation.
Skin	This product is not classified as a skin irritant/corrosive. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (non-allergic).

Chronic Effects:

Carcinogenicity	This product is not classified as carcinogenic.
Reproductive Toxicity	This product is not classified as toxic for reproduction.
Germ Cell Mutagenicity	This product is not classified as mutagenic.
Aspiration	This product is not classified as Asp Tox.
STOT/SE	This product is not classified as STOT SE.
STOT/RE	This product is not classified as STOT RE.

Section 12. Ecotoxicological Information

Non hazardous to the aquatic environment.

Product:	
Persistence and degradability	DOD5: 82% of ThOD and 86% of COD. Readily biodegradable: Readily biodegradable under aerobic conditions.
Bioaccumulation	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	Completely soluble.
Other adverse effects	No data available

ECOTOXICITY DATA

Fish, (*Carassius auratus*), 24hr LC50: >5000 mg/L.

Crustacean, (*Daphnia magna*), 24hr EC50: >10000 mg/L.

Algae IC50: >2900 mg/l Bacteria EC50: >10000 mg/l (*Pseudomonas putida*).

Section 13. Disposal Considerations

PRODUCT

Return unwanted product to the manufacturer for disposal or contact the Regional Council for local chemical disposal area details.

Treatment in a biological wastewater treatment system with prior approval and arrangement is also permissible providing that the substance is rendered non-hazardous and does not pose any adverse effects to human health or the environment.

Alternatively consult an approved Waste Management company for disposal options.

PACKAGING

NZ: Triple-rinse empty containers. Contact AgRecovery to arrange for pick-up or drop-off at a collection depot.

Overseas: Triple-rinse empty containers. Dispose of containers in accordance with guidance / regulations from relevant local authorities.

Observe all label safeguards until containers are cleaned and destroyed.

Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.

TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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