

Safety Data Sheet

according to WHS Regulations

Print date: 19.01.2024

Revision date: 19.01.2024

1 Identification

Product Name: GLYCERINE

Other Means of Identification: Mixture

Other Name:

Glycerin; glycerine; glycerine anhydrous; glyceritol; glycerol; glycolic alcohol; glycol alcohol; 1,2,3-propanetriol; Propane-1,2,3-triol; trihydroxypropane; 1,2,3-trihydroxypropane

Recommended Use of the Chemical and Restriction on Use: Emollient and an iodophor diluent

Details of Manufacturer or Importer:

DASCO Pty Ltd
24-26 Helen Street
Heidelberg Heights VIC 3081

Phone Number: (03) 9459 7004

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.

The product is not classified, according to the Globally Harmonised System (GHS).

Signal Word None

Hazard Statements None

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 56-81-5	Glycerol	≥99.5%
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4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation occurs.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention if feeling unwell.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation and coughing. Inhalation of hot vapours may cause nausea.

Skin Contact: May cause skin irritation and skin dryness.

Eye Contact: May cause eye irritation and redness.

Ingestion: May cause headache, nausea, vomiting, diarrhoea, insomnia, fever, haemoglobinuria, convulsions, paralysis, elevated blood sugar and diabetic coma. Very large doses may cause irritation and dehydration of

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the tissues, haemolysis and renal failure.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and acrolein.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear protective equipment. Keep unprotected persons away. Take care as spill may cause a slip hazard.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Wipe up small spills with a paper towel or dry rag. Clean up all spills immediately, since spilled materials, even in small quantities, may present a slip hazard. Absorb large spills with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Keep away from strong oxidising agents, concentrated mineral acids and acetic anhydride.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 56-81-5 Glycerol

WES	TWA: 10 mg/m ³ inhalable dust
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Engineering Controls:

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber or plastic gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

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Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Colourless
Odour:	Almost odourless
Odour Threshold:	No information available
pH-Value:	~7
Melting point/freezing point:	18.2 °C
Initial Boiling Point/Boiling Range:	290 °C
Flash Point:	160 °C
Flammability (solid, gas):	Not applicable
Auto-ignition Temperature:	370 °C
Decomposition Temperature:	171 °C
Explosion Limits:	
Lower:	0.9 Vol%
Upper:	No information available
Vapour Pressure at 50 °C:	<0.1 hPa
Relative Density at 20 °C:	1.26
Vapour Density:	3.17 (Air = 1)
Evaporation Rate:	No information available
Solubility in Water:	Miscible in all proportions
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: Strong oxidising agents, concentrated mineral acids and acetic anhydride.

Hazardous Decomposition Products: Oxides of carbon and acrolein.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 56-81-5 Glycerol**

Oral	LD50	12,600 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/6 h	4 mg/l (Rattus norvegicus (rat))

Acute Health Effects

Inhalation: May cause respiratory irritation and coughing. Inhalation of hot vapours may cause nausea.

Skin: May cause skin irritation and skin dryness.

Eye: May cause eye irritation and redness.

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Ingestion:

May cause headache, nausea, vomiting, diarrhoea, insomnia, fever, haemoglobinuria, convulsions, paralysis, elevated blood sugar and diabetic coma. Very large doses may cause irritation and dehydration of the tissues, haemolysis and renal failure.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Based on classification principles, the classification criteria are not met.

This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Repeated or prolonged skin contact may lead to dry skin and irritation. Chronic over-exposure to glycerol may affect the blood and kidneys.

Over-exposure to vapours or aerosols may lead to symptoms similar to ingestion, including elevated blood sugar and diabetic coma.

Existing Conditions Aggravated by Exposure:

Skin and eye disorders and compromised liver or kidney function.

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

No adverse ecological effects are expected. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

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Packing Group: Not regulated

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 19.01.2024**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020".

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