

# Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

## 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 Poison 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)

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

**Signal Word** None

**Hazard Statements** None

**Precautionary Statements** None

## 3 Composition and Information on Ingredients

**Chemical Characterisation: Substances**

**CAS No. Description**

56-81-5 1,2,3-Propanetriol ≥99.5%

## 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 symptoms occur.

**Eye Contact:**

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

**Ingestion:** If swallowed, do not induce vomiting. Seek medical attention if symptoms occur.

**Symptoms Caused by Exposure:**

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

Skin Contact: May cause 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 the tissues, haemolysis and renal failure.

(Contd. on page 2)

# Safety Data Sheet

## according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

**Product Name: GLYCERINE**

(Contd. of page 1)

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog, foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and acrolein.

Combustible liquid. Risk of fire or explosion when mixed with acids or oxidising agents.

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

**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 approved full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**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:**

Stop leak if safe to do so and absorb spill 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:**

Risk of fire or explosion when mixed with acids or oxidising agents.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

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 original container in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from physical damage. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Hygroscopic, will absorb moisture from the air. Keep away from 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 <sup>3</sup>
-----	---------------------------

**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

**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.

(Contd. on page 3)

# Safety Data Sheet

## according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

**Product Name: GLYCERINE**

(Contd. of page 2)

**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.

Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear, colourless
<b>Odour:</b>	Almost odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Neutral
<b>Melting point/freezing point:</b>	18.6 °C
<b>Initial Boiling Point/Boiling Range:</b>	290 °C
<b>Flash Point:</b>	160 °C
<b>Flammability:</b>	Combustible Liquid Class 2
<b>Auto-ignition Temperature:</b>	370 °C
<b>Decomposition Temperature:</b>	171 °C
<b>Explosion Limits:</b>	
<b>Lower:</b>	0.9 %
<b>Upper:</b>	No information available
<b>Vapour Pressure at 50 °C:</b>	0.0025 mm Hg
<b>Density:</b>	No information available
<b>Relative Density at 20 °C:</b>	1.26
<b>Vapour Density:</b>	3.17 (Air = 1)
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible in all proportions
<b>Solubility in Solvents:</b>	Soluble in diethyl ether, ethanol and ethyl acetate. Insoluble in benzene, carbon disulphide, carbon tetrachloride and chloroform.
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	Viscous
<b>% Volatiles by Volume:</b>	<1 %
<b>VOC:</b>	<1 %

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Hazardous polymerisation will not occur.

Risk of fire or explosion when mixed with acids or oxidising agents.

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

**Conditions to Avoid:**

Heat, sparks, open flames, hot surfaces and direct sunlight. Hygroscopic, will absorb moisture from the air.

**Incompatible Materials:** Oxidising agents, concentrated mineral acids and acetic anhydride.

**Hazardous Decomposition Products:** Oxides of carbon and acrolein.

(Contd. on page 4)

# Safety Data Sheet

according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

Product Name: GLYCERINE

(Contd. of page 3)

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****CAS: 56-81-5 Glycerol**

Oral	LC <sub>50</sub> /1 h	>570 mg/m <sup>3</sup> (rat)
	LD <sub>50</sub>	12600 mg/kg (rat) 4090 mg/kg (mouse)
	TDL <sub>0</sub>	1428 mg/kg (human)
Dermal	LD <sub>50</sub>	>10000 mg/kg (rabbit)

**Acute Health Effects**

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

**Skin:** May cause irritation and skin dryness.

**Eye:** 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 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:** 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.

**Additional toxicological information:** No information available

## 12 Ecological Information

**Ecotoxicity:** No further relevant information available.

**Aquatic toxicity:** No further relevant information available.

**Persistence and Degradability:** No further relevant information available.

(Contd. on page 5)

# Safety Data Sheet

## according to WHS Regulations

Printing date 02.09.2019

Revision: 02.09.2019

**Product Name: GLYCERINE**

(Contd. of page 4)

**Bioaccumulative Potential:** Not expected to bioaccumulate.**Mobility in Soil:** No further relevant information available.**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**Packing Group:** Not regulated

### 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 56-81-5 | Glycerol

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

Not Scheduled.

### 16 Other Information

**Date of Preparation or Last Revision:** 02.09.2019**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.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)

VOC: Volatile Organic Compounds

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: 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 - February 2016"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. DASCOS Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.