

Safety Data Sheet **GLYCERINE**

SDS no. BPH1Y3EP • Version 1.0 • Date of issue: 2023-09-03

SECTION 1: Identification

GHS Product identifier

Product name GLYCERINE

Recommended use of the chemical and restrictions on use

Alkyd resins, dynamite, ester gums, pharmaceuticals, perfumery, plasticiser for regenerated cellulose, cosmetics, foodstuffs, sweetener, liqueurs, confectionery, conditioning tobacco, liquors, solvent, printer's ink rolls, polyurethane polyols, manufacture of nitroglycerine (dynamite), elastic glues, emulsifying agent, rubber stamp and copying inks, binder for cements and mixes, special soaps, lubricant and softener, bacteriostat, penetrant, hydraulic fluid, shock absorber fluid, humectant, fermentation nutrients, antifreeze mixtures and laboratory reagent.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Safety Data Sheet

GLYCERINE

SDS no. BPH1Y3EP • Version 1.0 • Date of issue: 2023-09-03

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 92.09

Components

Component	CAS no.	Concentration
Glycerine (EC no.: 200-289-5)	56-81-5	100 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam.

Large fire: Use water spray, fog or foam.

Specific hazards arising from the chemical

Products: Oxides of carbon.

May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Avoid inhalation, contact with skin, eyes and clothing.

Environmental precautions

Prevent further leakage or spillage and prevent from entering drains

Methods and materials for containment and cleaning up

Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid skin and eye contact. Avoid generating and inhaling mist. Use in ventilated areas.

Conditions for safe storage, including any incompatibilities

Classified as a C2 (Comustible liquid) for the purpose of storage and handling.

Refer Australian Standard AS 1940 'The storage and handling of flammable and combustible liquids'.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Colourless liquid.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	18 °C
Boiling point or initial boiling point and boiling range	290 °C
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	199 °C c.c.
Explosive properties	No data available.
Auto-ignition temperature	392 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	Neutral to litmus.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble. Solubility in Organic Solvents: Soluble in alcohol. Insoluble in ether, benzene, chloroform, carbon tetrachloride, carbon disulfide and in fixed and volatile oils.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	0.0025 mm @ 50 °C
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 1.25
Relative vapor density	3.17
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

Other Information: Sweet warm taste. About 0.6 times as sweet as cane sugar. Absorbs moisture from air, also absorbs H₂S, HCN and SO₂.

SECTION 10: Stability and reactivity

Reactivity

None under normal use conditions.

Reacts with incompatible materials

Chemical stability

Stable.

Possibility of hazardous reactions

[25] Possibility of hazardous reactions: Contact with strong oxidizing agents such as chromium trioxide, potassium chlorate and potassium permanganate may produce an explosion.

Conditions to avoid

Heat, flames, ignition sources and imcompatibles.

Incompatible materials

Strong oxidizing agents, halogens, ethylene oxide, and nitric acid/sulfuric acid. May react violently with acetic anhydride, nitrobenzene and alkali metal hydrides.

Hazardous decomposition products

Oxides of carbon.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Oral: LD50 (rat): 12600 mg/kg.

Ingestion: May be harmful if swallowed. May cause drowsiness, gastrointestinal pain, cramps, nausea, headaches, dizziness, vomiting and diarrhoea, unconsciousness, and if excessively large amounts are ingested, may experience dehydration, nausea, vomiting, kidneys, coma and death may result.

Inhalation: Irritating to mucous membranes and respiratory tract.

Skin corrosion/irritation

May be harmful if absorbed through the skin causing irritation

Serious eye damage/irritation

May cause irritation to the eyes with symptoms including redness, burning sensation and tearing.

Respiratory or skin sensitization

Not expected to be a respiratory or skin sensitiser.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

Additional information

Chronic Effects: Chronic poisoning by ingestion or inhalation may include headache, giddiness, disturbance of vision, smell, taste and sleep, trembling of the limbs, weakness and mental excitement. May be accompanied by loss of appetite, nausea, vomiting and diarrhoea. Prolonged or repeated exposure may cause toxicity to kidneys.

SECTION 12: Ecological information

Toxicity

Fish: LC50(Carassius auratus): > 5000 mg/l /24 h.

Daphnia: EC50 (Daphnia magna): > 10000 mg/l /24 h.

[8Z] Acute Toxicity - Algae: IC5 (Scenedesmus quadricauda): > 10000 mg/l /7d.

[90] Acute Toxicity - Bacteria: EC5(Pseudomonas putida): > 10000 mg/l /16 h.

[91] Acute Toxicity - Other Organisms: Protozoa: EC5 (Entosiphon sulcatum): 3200 mg/l /72 h.

Persistence and degradability

Biologic degradation: 63%/14d

Bioaccumulative potential

No bioaccumulation is to be expected (log P(o/w) <1).

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Sewage disposal

No bioaccumulation is to be expected (log P(o/w) <1).

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

Safety Data Sheet

GLYCERINE

SDS no. BPH1Y3EP • Version 1.0 • Date of issue: 2023-09-03

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

Preparation information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)