



Glycerine

AGent

AGent SDS: Glycerine [2026.01]

Version No: 2026.01

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Hazard Alert Code: 0

Issue Date: June 2026

Print Date: (auto-fills on print)

AGENT.GHS.AUS.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	Glycerine
Chemical Name	Glycerol
Synonyms	Glycerol; 1,2,3-propanetriol; 1,2,3-trihydroxypropane; glycerin
Proper shipping name	Not Applicable — NON-DANGEROUS GOODS
Chemical formula	C ₃ H ₈ O ₃
Other means of identification	Glycerine [2026.01]

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Pharmaceutical, food, cosmetics and industrial applications; humectant; solvent; lubricant.
Uses advised against	None specified in the source SDS.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	AGent Sales & Services Pty Ltd
Address	38 May Holman Drive, Bassendean WA 6054, Australia
Telephone	(+61 8) 6270 4500 / 1300 833 844
Website	agentsales.com.au
Email	admin@agentsales.com.au

Emergency telephone number

Association / Organisation	Hazrad (outside 24-hour emergency response provider)
Emergency telephone numbers	08 9418 4200 (24-hour) — answered by Hazrad on AGent's behalf
Other emergency telephone numbers	Poisons Information Centre 131 126 (Australia) / 0800 764 766 (NZ)

SECTION 2 Hazards identification

Classification of the substance or mixture

NOT classified as hazardous under the GHS criteria adopted by Safe Work Australia, and NOT a Dangerous Good under the ADG Code.

Poisons Schedule (SUSMP)	Not Scheduled (SUSMP — not listed)
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Classification

- Not classified as a hazardous chemical (GHS) — no hazard class allocated

Label elements

Hazard pictogram(s)	None allocated
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Signal word	None (not classified as hazardous)
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Hazard statement(s)

- None allocated — not classified as a hazardous chemical.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

- P264 — Wash hands thoroughly after handling (good practice).
- P280 — Wear eye protection where splashing is possible (precautionary).

Precautionary statement(s) Response

- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing (precautionary).

Precautionary statement(s) Storage

- P233 — Keep container tightly closed (hygroscopic). Store in a cool, dry place.

Precautionary statement(s) Disposal

- P501 — Dispose of contents/container in accordance with local, state and federal regulations.

Other hazards

Hygroscopic (absorbs moisture). May emit toxic fumes (acrolein) if strongly overheated.

SECTION 3 Composition / information on ingredients**Substances**

See section below for composition of Mixtures.

Mixtures

CAS No.	% [weight]	Name	Classification
56-81-5	98	Glycerol	Not classified

SECTION 4 First aid measures**Description of first aid measures****Eye Contact**

If in eyes, hold eyes open and flood with water for at least 15 minutes. If irritation persists, seek medical advice.

Skin Contact

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water, then with soap if available. If irritation persists, seek medical advice.

Inhalation

Remove victim to fresh air if safe to do so. Seek medical attention for any breathing difficulty.

Ingestion

Do NOT induce vomiting. Give a glass of water. If irritation persists, seek medical advice. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

Most important symptoms and effects, both acute and delayed

Low hazard. May cause mild mechanical irritation to eyes / skin / respiratory tract. Ingestion of large amounts may cause digestive discomfort (osmotic).

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact the Poisons Information Centre (Australia 131 126; New Zealand 0800 764 766).

First Aid facilities

Eye wash facilities and a safety shower must be available in any area where this product is handled.

SECTION 5 Firefighting measures

Extinguishing media

Water fog or spray, dry chemical, carbon dioxide, alcohol-resistant foam. Do not use a water jet.

Special hazards arising from the substance or mixture

Fire Incompatibility

May emit toxic fumes (acrolein, carbon oxides) under fire conditions. Reacts violently with strong oxidisers.

Advice for firefighters

Fire Fighting

Wear self-contained breathing apparatus (SCBA) and full protective clothing where fumes are present.

Fire / Explosion Hazard

Combustible at high temperature (flash point ~198 °C). Toxic acrolein fumes if overheated.

HAZCHEM Code	Not Applicable
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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 for personal protective equipment requirements.

Avoid contact with spilled material. Slippery when spilt. Ventilate the area. Wear basic PPE per Section 8.

Environmental precautions

Use appropriate containment to avoid environmental contamination; prevent large quantities entering drains.

Methods and material for containment and cleaning up

Minor Spills

Absorb with inert material and place in a labelled waste container. Wash residue area (slippery).

Major Spills

Contain spill. Collect with inert absorbent into labelled containers for disposal per Section 13. Prevent run-off to waterways.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

Avoid contact with eyes. Do not ingest. Wash thoroughly after handling. Keep containers tightly closed (hygroscopic). Handle in a well-ventilated area.

Other information

Slippery if spilt — clean up promptly. Store away from strong oxidisers (see Section 10).

Conditions for safe storage, including any incompatibilities

Suitable container

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use (hygroscopic). Protect against physical damage.

Storage incompatibility

Strong oxidising agents. Store away from incompatible materials (see Section 10).

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

Reference: Safe Work Australia, "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia.

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
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SWA WEL 2024	Glycerine mist	Glycerol	10 mg/m ³	Not assigned in SWA WEL 2024	Not assigned in SWA WEL 2024	SWA WEL 2024 glycerine mist TWA 10 mg/m ³ .
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Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Glycerol	Not established (DOE PAC)	Not established (DOE PAC)	Not established (DOE PAC)
Ingredient	Original IDLH	Revised IDLH	
Glycerol	Not established (NIOSH)	Not established (NIOSH)	

MATERIAL DATA

No whole-mixture occupational exposure data are available; manage on a per-component basis (above).

Exposure controls

Appropriate engineering controls

Apply the hierarchy of controls (WHS Reg 36). Where elimination or substitution is not reasonably practicable: provide local exhaust ventilation at points of vapour / mist generation; use closed transfer systems where possible; ensure general ventilation is adequate to keep airborne concentrations below the applicable WEL. Document the risk assessment supporting the chosen control hierarchy.

Individual protection measures, such as personal protective equipment

Eye and face protection

Safety glasses with side shields (AS/NZS 1336 & 1337) as a minimum. Chemical goggles and a face shield (AS/NZS 1336 & 1337) where splash potential exists.

Skin protection

See Hand protection below.

Hands/feet protection

Wear protective gloves (rubber or PVC, AS/NZS 2161) and safety glasses / splash goggles (AS/NZS 1336 & 1337) where splashing is possible. Use a P1 / P2 particulate respirator (AS/NZS 1715 & 1716) only if mist is generated.

Body protection

See Other protection below.

Other protection

Long-sleeved chemical-resistant protective clothing and apron (PVC or equivalent)

Respiratory protection

If a risk assessment indicates an inhalation risk exists, wear a half-face or full-face respirator with appropriate filter (selection per AS/NZS 1715; respirator per AS/NZS 1716). Specific cartridge / canister recommendation to be confirmed during respiratory protection risk assessment per AS/NZS 1715.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Property	Value
Appearance	Viscous liquid — clear, colourless
Physical state	Liquid (viscous)
Odour	Faintly sweet
Odour threshold	No data available in source SDS
pH (as supplied)	7.0 (typical) — neutral
Melting point / freezing point (°C)	18 °C
Initial boiling point and boiling range (°C)	290 °C
Flash point (°C)	198 °C
Evaporation rate	No data available in source SDS

Flammability	Non-flammable (combustible only at high temperature)
Upper Explosive Limit (%)	No data available in source SDS
Lower Explosive Limit (%)	No data available in source SDS
Vapour pressure (kPa)	0.0025 mmHg (very low)
Solubility in water	Soluble in water (miscible)
Vapour density (Air = 1)	No data available in source SDS
Relative density (Water = 1)	1.26
Partition coefficient n-octanol/water	log Kow $\approx$ -1.76
Auto-ignition temperature (°C)	$\sim$ 370 °C
Decomposition temperature (°C)	Decomposes on strong heating (acrolein)
Viscosity (cSt)	$\sim$ 1410 mPa·s at 20 °C (highly viscous)
Molecular weight (g/mol)	92.09 g/mol
Taste	Sweet (do not taste)
Explosive properties	None known
Oxidising properties	None known
Surface Tension (dyn/cm or mN/m)	No data available in source SDS
Volatile Component (% vol)	Negligible — very low volatility
Gas group	Not applicable
pH as a solution (1%)	Neutral ($\sim$ 7)
VOC g/L	Negligible — very low vapour pressure

SECTION 10 Stability and reactivity

Reactivity	Hygroscopic. Reacts with strong oxidisers. Stable under recommended conditions. See Section 7.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reactive with moisture (absorbs water). Hazardous polymerisation will not occur.
Conditions to avoid	Heat and ignition sources; moisture; incompatible materials.
Incompatible materials	See Section 7. Strong oxidising agents.
Hazardous decomposition products	Oxides of carbon; acrolein on strong heating.

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Mist may cause mucous-membrane irritation and coughing.

Ingestion

Low toxicity. Large amounts may cause irritation and digestive (osmotic) discomfort.

Skin Contact

May cause mild irritation; contact with dry skin can be mildly irritating.

Eye

May cause mild irritation.

Chronic

Not expected to impair fertility. No component $\geq 0.1\%$ is an IARC carcinogen.

Per-ingredient toxicity

Ingredient	TOXICITY	IRRITATION
Glycerol	Oral LD50 (rat): ~12,600 mg/kg (very low toxicity)	Mild / non-irritant

Hazard checklist (whole-product classification basis)

Hazard endpoint	Classified	Hazard endpoint	Classified
Acute Toxicity	—	Carcinogenicity	—
Skin Irritation/Corrosion	—	Reproductive Toxicity	—
Serious Eye Damage/Irritation	—	STOT — Single Exposure	—
Respiratory or Skin Sensitisation	—	STOT — Repeated Exposure	—
Mutagenicity	—	Aspiration Hazard	—

Legend: ✓ = Data available to make classification; — = Data either not available or does not fill the criteria for classification.

Information on possible routes of exposure

May be absorbed by inhalation of mist, ingestion, skin and / or eye contact.

Additional Information

RTECS	Not available
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SECTION 12 Ecological information

Toxicity

Ingredient	Endpoint	Test Duration	Species	Value	Source
Glycerol	Low ecotoxicity	Not Provided	Aquatic organisms (general)	Low toxicity; readily biodegradable. No quantitative LC50 in source SDS.	AGent SDS
Glycerol	No quantitative data	Not applicable	Not applicable	No quantitative ecotoxicity data in source SDS	AGent SDS

Environmental precaution: Prevent entry to drains, waterways and soak-aways. Notify the relevant Environmental Protection Authority if waterway contamination occurs.

Persistence and degradability

Ingredient	Persistence: Water / Soil	Persistence: Air
Glycerol	Readily biodegradable.	Not applicable — negligible volatility.

Bioaccumulative potential

Ingredient	Bioaccumulation
Glycerol	Not expected to bioaccumulate (low log Kow $\approx$ -1.76).

Mobility in soil

Ingredient	Mobility
Glycerol	Miscible and mobile in water.

Other adverse effects

Low environmental hazard; readily biodegradable. Avoid discharging large quantities to waterways.

SECTION 13 Disposal considerations**Waste treatment methods****Product / Packaging disposal**

- Recycle wherever possible.
- Ensure waste disposal conforms to all relevant local, state and federal authority waste disposal regulations.
- Do NOT discharge into sewers or waterways.
- Empty containers should be returned via AGent's Closed Loop container return program where applicable.
- Whatever cannot be saved for recovery or recycling should be managed through an approved waste disposal facility.
- Dispose of in accordance with local, state and federal regulations. Recover / recycle where possible.

SECTION 14 Transport information

Labels Required	Not Applicable — not regulated for transport
Marine Pollutant	No
HAZCHEM Code	Not Applicable

Land transport (ADG)

UN number	Not Applicable — NON-DANGEROUS GOODS
UN proper shipping name	Not Applicable — NON-DANGEROUS GOODS
Transport hazard class(es)	NON-DANGEROUS GOODS — not classified under the ADG Code for transport by road or rail.
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special precautions for user	Not Applicable — not regulated for transport.
ERG / EIP number	Not assigned — NON-DANGEROUS GOODS.

Air transport (ICAO-IATA / DGR)

UN number	Not Applicable — NON-DANGEROUS GOODS
UN proper shipping name (lowercase)	Not Applicable — NON-DANGEROUS GOODS
ICAO/IATA Class	ERG Code: Not Applicable
Packing group	Not Applicable
Environmental hazard	Not Applicable
Special provisions	Not Applicable — not regulated for transport by air.
Cargo Only Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Cargo Only Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Packing Instructions	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.
Passenger and Cargo Max Qty/Pack	Not Applicable — AGent does not transport this product by air. Refer to land transport (ADG) above for the applicable classification.

Sea transport (IMDG-Code / GGVSee)

UN number	Not Applicable — NON-DANGEROUS GOODS
UN proper shipping name	Not Applicable — NON-DANGEROUS GOODS
IMDG Class	NON-DANGEROUS GOODS
Packing group	Not Applicable
Environmental hazard	Not a Marine Pollutant
EMS Number	Not Applicable
Special provisions	Not Applicable — not regulated for transport by sea.

Transport in bulk according to MARPOL Annex II and the IBC Code

Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Glycerine	Not Applicable — AGent does not transport this product in bulk by sea.

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Glycerine	Not Applicable — AGen does not transport this product in bulk by sea.

SECTION 15 Regulatory information**Safety, health and environmental regulations / legislation specific for the substance or mixture**

GLYCEROL (CAS 56-81-5) is found on / assessed against the following regulatory lists:

- Australia Hazardous Chemical Information System (HCIS): Not classified as a hazardous chemical
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not listed
- Australian Inventory of Industrial Chemicals (AIIC): Listed
- IARC Group classification: Not classified
- Schedule 10 of the model WHS Regulations (prohibited / restricted carcinogens): Not listed
- Schedule 14 of the model WHS Regulations (health monitoring trigger): Not listed

Additional Regulatory Information

Subject to: Work Health and Safety (General) Regulations 2022 (WA); "Workplace Exposure Limits for Airborne Contaminants" (April 2024) by Safe Work Australia; Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) current edition.

National Inventory Status

Country / Inventory	Listed
Australia (AIIC / AICS)	Yes
Canada (DSL)	Not applicable — AGen does not export this product
Canada (NDSL)	Not applicable — AGen does not export this product
China (IECSC)	Not applicable — AGen does not export this product
Europe (EINECS / ELINCS / NLP)	Not applicable — AGen does not export this product
Japan (ENCS)	Not applicable — AGen does not export this product
Korea (KECI)	Not applicable — AGen does not export this product
New Zealand (NZIoC)	Not applicable — AGen does not export this product
Philippines (PICCS)	Not applicable — AGen does not export this product
USA (TSCA)	Not applicable — AGen does not export this product
Taiwan (TCSI)	Not applicable — AGen does not export this product
Mexico (INSQ)	Not applicable — AGen does not export this product
Vietnam (NCI)	Not applicable — AGen does not export this product
Russia (FBEPH)	Not applicable — AGen does not export this product

Legend: Yes = All CAS declared ingredients are on the inventory; No = One or more CAS listed ingredients are not on the inventory (may be exempt or require registration).

SECTION 16 Other information

Revision Date	June 2026
Initial Date	June 2026 (AGent 2026 format)

SDS Version Summary

Version	Date of Update	Sections Updated
2026.01 (AGent 2026 format)	June 2026	Reformatted from legacy AGent SDS to AGent 2026 layout. §8 updated to SWA WEL 2024 (glycerine mist 10 mg/m ³); removed superseded legacy abbreviations and exposure-standard references; AICS→AIIC. CLASSIFICATION NOTE: removed stray legacy H319 (glycerol is not classified as an eye irritant) to make §2 internally consistent with the NON-HAZARDOUS CHEMICAL declaration
(legacy AGent format)	Pre-2026	Older format. Declared NON-HAZARDOUS CHEMICAL / NON-DANGEROUS GOODS but carried a stray H319 (now removed).

Other information

This SDS is intended as a hazard communication tool to assist in workplace Risk Assessment. It is not an Australian Standard or a definitive document.

Definitions and abbreviations

Abbreviation	Definition
ADG	Australian Dangerous Goods Code
AICS / AIIC	Australian Inventory of Industrial Chemicals (formerly AICS)
AUH	Additional / Australian Hazard statements
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service Registry Number
DNEL	Derived No Effect Level
DSEN	Dermal sensitiser (SWA WEL 2024 notation)
EC50	Effect Concentration causing effect in 50% of test population
EMS	IMDG Emergency Schedule
ERG / EIP	Emergency Response Guide / Emergency Information Panel (SAA/SNZ HB76)
ES	Exposure Standard (legacy term — now WEL)
GHS	Globally Harmonised System of Classification and Labelling
HCIS	Hazardous Chemical Information System (Safe Work Australia)
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health
LC50	Lethal Concentration causing death in 50% of test population
LD50	Lethal Dose causing death in 50% of test population
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupational Exposure Limit
OTO	Ototoxic (SWA WEL 2024 notation)
PC-STEEL	Permissible Concentration — Short Term Exposure Limit
PC-TWA	Permissible Concentration — Time Weighted Average
PNEC	Predicted No Effect Concentration
RSEN	Respiratory sensitiser (SWA WEL 2024 notation)
SDS	Safety Data Sheet
Sk	Skin notation — absorption through the skin a significant route
STEEL	Short Term Exposure Limit (15 min TWA)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TEEL	Temporary Emergency Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hr / 40 hr week)
WEL	Workplace Exposure Limit (Safe Work Australia, April 2024)

WHS	Work Health and Safety
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