Safety Data Sheet
Glycerine
Revision 6, 22/08/2024

1. IDENTIFICATION

Product Name	**Glycerine**
Other Names	Crude Glycerine; Glycerin; Glycerol; Semi Refined Crude Glycerine Q3
Uses	Food product; Feed ingredient; Cosmetic products; Technical applications; Industrial applications.
Chemical Family	No Data Available
Chemical Formula	C3H8O3
Chemical Name	1,2,3-Propanetriol
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Aurora Cleaning Supplies	F1 / 5 Bungaleen Court Dandenong South VIC 3175	03 9768 2669

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

Hazard Classification	NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Signal Word	None

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
1,2,3-Propanetriol	C3H8O3	56-81-5	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth, then drink a glass of water. Do not induce vomiting. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Advice to Doctor	Treat symptomatically and supportively.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	Combustible liquid; May burn but does not ignite readily.
Extinguishing Media	Use dry chemical, Carbon dioxide (CO2), alcohol-resistant foam or water spray for extinction - Do not use water jets.
Fire and Explosion Hazard	Containers may explode when heated. *Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in a well-ventilated area.
Hazardous Products of Combustion	Fire may produce irritating and/or toxic gases, including Carbon oxides, hydrocarbons, soot, aldehydes and ketones.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
Flash Point	>=180 - 198.9 °C

Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	400 °C
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material - Greasy nature will result in a slippery surface. Avoid accidents, clean up immediately! Avoid breathing vapours and contact with eyes, skin and clothing.
Clean Up Procedures	Recover large spills for salvage or disposal. Pick up spills/residues with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION 13). *Never return spills into original containers for re-use.
Containment	Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Dike far ahead of large spill for later disposal.
Decontamination	Clean surface thoroughly to remove residual contamination. Wash hard surfaces with detergent to remove remaining oil film.
Environmental Precautionary Measures	Prevent entry into drains and waterways.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Avoid exposure to heat and sources of ignition - No smoking.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use - check regularly for leaks. Protect against physical damage. Protect from moisture (hygroscopic). Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).
Container	Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	For Glycerin mist (CAS No. 56-81-5): - Safe Work Australia Exposure Standard: TWA = 10 mg/m3. - New Zealand Workplace Exposure Standard: TWA = 10 mg/m3.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapour/particulate respirator (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or goggles. - Hand protection: Handle with gloves. Recommended: Impervious gloves. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes.
Special Hazards Precaustions	Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Work Hygienic Practices	Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear, viscous liquid
Odour	Odourles
Colour	Colourless
pH	No Data Available
Vapour Pressure	<0.01 mmHg (@ 20 °C)
Relative Vapour Density	3.2 Air = 1
Boiling Point	290 - 295 °C
Melting Point	18 - 20 °C
Freezing Point	No Data Available
Solubility	Soluble in water
Specific Gravity	approx. 1.26 (H2O = 1)
Flash Point	>=180 - 198.9 °C
Auto Ignition Temp	400 °C
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	1.261 g/cm3
Specific Heat	No Data Available
Molecular Weight	92.1
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	107.5 mPa.s (55 ºC) - 1,410 mPa.s (20 ºC) (@ No Data Available)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in a well-ventilated area.
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid; May burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides, hydrocarbons, soot, aldehydes and ketones.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	Reacts vigorously and explosively with oxidisers, such as chromium trioxide, potassium chlorate, or potassium permanganate. Reacts violently with acid anhydrides, sodium peroxide, silver perchlorate, lead oxide, aniline, nitrobenzene, lead oxide, ethylene oxide and fluorine.
Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	Keep away from heat and sources of ignition. Avoid exposure to moisture (hygroscopic).
Materials to Avoid	Incompatible/reactive with acids, acid anhydrides, oxidising agents, nitrobenzene, aniline.
Hazardous Decomposition Products	Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides, hydrocarbons, soot, aldehydes and ketones.
Hazardous Polymerisation	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Information on possible routes of exposure: - Ingestion: No adverse effects expected; large amounts may cause gastrointestinal irritation, nausea and vomiting. - Eye contact: May cause eye irritation. - Skin contact: Repeated or prolonged contact may have a degreasing action on the skin and may lead to irritant contact dermatitis. - Inhalation: Mist/vapours may cause respiratory tract irritation (mucous membranes), headache, nausea. Chronic effects: No information available.
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence/Degradability	Material is organic by nature and would be expected to breakdown readily in the environment.
Mobility	No information available.
Environmental Fate	Don’t allow spilled material to flow into drainage systems or wastewater treatment systems - High BOD; Large spills into waterways could promote eutrophication and fish kills.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with local/regional/national regulations.
Special Precautions for Land Fill	No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)
ADG Code

Proper Shipping Name	Glycerine

Class	C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)
ADR Code

Proper Shipping Name	Glycerine
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Mexico)
NOMs

Proper Shipping Name	Glycerine
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)
NZS5433

Proper Shipping Name	Glycerine
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)
US DOT

Proper Shipping Name	Glycerine
Class	No Data Available
Subsidiary Risk(s)	No Data Available

	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport
IMDG Code

Proper Shipping Name	Glycerine
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport
IATA DGR

Proper Shipping Name	Glycerine
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)
Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	Not Scheduled

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Not Hazardous

National/Regional Inventories

Australia (AIIC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	200-289-5
Europe (REACh)	Not Determined
Japan (ENCS/METI)	Listed
Korea (KECI)	KE-29297
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Listed
USA (TSCA)	Listed

16. OTHER INFORMATION

Related Product Codes

GLYCER0300, GLYCER0400, GLYCER0500, GLYCER0700, GLYCER0800, GLYCER1000, GLYCER1001, GLYCER1002, GLYCER1003, GLYCER1004, GLYCER1005, GLYCER1006, GLYCER1007, GLYCER1008, GLYCER1009, GLYCER1010, GLYCER1011, GLYCER1012, GLYCER1013, GLYCER1014, GLYCER1015, GLYCER1016, GLYCER1017, GLYCER1018, GLYCER1019, GLYCER1020, GLYCER1021, GLYCER1022, GLYCER1023, GLYCER1024, GLYCER1025, GLYCER1026, GLYCER1027, GLYCER1028, GLYCER1029, GLYCER1030, GLYCER1031, GLYCER1032, GLYCER1033, GLYCER1034, GLYCER1035, GLYCER1036, GLYCER1037, GLYCER1038, GLYCER1039, GLYCER1040, GLYCER1041, GLYCER1042, GLYCER1043, GLYCER1044, GLYCER1045, GLYCER1048, GLYCER1049, GLYCER1050, GLYCER1051, GLYCER1055, GLYCER1057, GLYCER1100, GLYCER1110, GLYCER1120, GLYCER1200, GLYCER1300, GLYCER1400, GLYCER1500, GLYCER1501, GLYCER1502, GLYCER1503, GLYCER1504, GLYCER1505, GLYCER1506, GLYCER1507, GLYCER1508, GLYCER1509, GLYCER1510, GLYCER1550, GLYCER1600, GLYCER1601, GLYCER1650, GLYCER1700, GLYCER1701, GLYCER1702, GLYCER1703, GLYCER1750, GLYCER1751, GLYCER1760, GLYCER1761, GLYCER1762, GLYCER1763, GLYCER1764, GLYCER1765, GLYCER1766, GLYCER1767, GLYCER1771, GLYCER1800, GLYCER1801, GLYCER1802, GLYCER1803, GLYCER1804, GLYCER1805, GLYCER1806, GLYCER1807, GLYCER1808, GLYCER1809, GLYCER1810, GLYCER1811, GLYCER1812, GLYCER1813, GLYCER1814, GLYCER1815, GLYCER1816, GLYCER1817, GLYCER1818, GLYCER1819, GLYCER1820, GLYCER1821, GLYCER1822, GLYCER1823, GLYCER1824, GLYCER1900, GLYCER2000, GLYCER2001, GLYCER2002, GLYCER2003, GLYCER2004, GLYCER2005, GLYCER2006, GLYCER2007, GLYCER2008, GLYCER2009, GLYCER2100, GLYCER2200, GLYCER2300, GLYCER2301, GLYCER2310, GLYCER2311, GLYCER2500, GLYCER2501, GLYCER2502, GLYCER2600, GLYCER2601, GLYCER2700, GLYCER2800, GLYCER2900, GLYCER3000, GLYCER3001, GLYCER3002, GLYCER3010, GLYCER3110, GLYCER3120, GLYCER3155, GLYCER3200, GLYCER3210, GLYCER3300, GLYCER3500, GLYCER3800, GLYCER3900, GLYCER4000, GLYCER4001, GLYCER4002, GLYCER4100, GLYCER4400, GLYCER4500, GLYCER4800, GLYCER5000, GLYCER5100, GLYCER5101, GLYCER5102, GLYCER5103, GLYCER5105, GLYCER5110, GLYCER5111, GLYCER5120, GLYCER5150, GLYCER5152, GLYCER5153, GLYCER5154, GLYCER5197, GLYCER5200, GLYCER5201, GLYCER5202, GLYCER5203, GLYCER5204, GLYCER5205, GLYCER5206, GLYCER5207, GLYCER5210, GLYCER5211, GLYCER5212, GLYCER5213, GLYCER5220, GLYCER5225, GLYCER5226, GLYCER5250, GLYCER5280, GLYCER5281, GLYCER5283, GLYCER5290, GLYCER5291, GLYCER5293, GLYCER5295, GLYCER5296, GLYCER5297, GLYCER5298, GLYCER5300, GLYCER5301, GLYCER5305, GLYCER5306, GLYCER5400, GLYCER5401, GLYCER5402, GLYCER5403, GLYCER5404, GLYCER5405, GLYCER5406, GLYCER5450, GLYCER5500, GLYCER5501, GLYCER5502, GLYCER5503, GLYCER5512, GLYCER5600, GLYCER6000, GLYCER6001, GLYCER6002,

GLYCER6100, GLYCER6500, GLYCER6600, GLYCER6700, GLYCER6800, GLYCER7000, GLYCER7003, GLYCER7100, GLYCER7103, GLYCER7180, GLYCER7185, GLYCER7200, GLYCER7300, GLYCER7400, GLYCER7500, GLYCER7501, GLYCER7600, GLYCER7700, GLYCER7701, GLYCER7710, GLYCER7720, GLYCER7721, GLYCER7730, GLYCER7740, GLYCER7741, GLYCER7750, GLYCER7751, GLYCER7760, GLYCER7770, GLYCER7800, GLYCER7840, GLYCER7850, GLYCER7855, GLYCER7900, GLYCER7905, GLYCER7906, GLYCER7907, GLYCER7940, GLYCER7950, GLYCER8000, GLYCER8100, GLYCER8200, GLYCER8300, GLYCER8400, GLYCER8500, GLYCER8600, GLYCER8700, GLYCER8800, GLYCER8900, GLYCER9000, GLYCER9100, GLYCER9200, GLYCER9201, GLYCER9400, GLYCER9500, GLYCER9501, GLYCER9503, GLYCER9600, GLYCER9605, GLYCER9700, GLYCER9750, GLYCER9751, GLYCER9800, GLYCER9900, GLYCER9910

Revision 6

Revision Date 22/08/2024

Reason for Issue Updated SDS

Key/Legend

< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO2 Carbon Dioxide
COD Chemical Oxygen Demand
deg C (°C) Degrees Celcius
EPA (New Zealand) Environmental Protection Authority of New Zealand
deg F (°F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH2O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or **L** Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH2O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight