



Material Safety Data Sheets

1. IDENTIFICATION

Product Name Glycerin Extra pure

Other Names 1,2,3-Propanetriol; Glycerin; Glycerol (Vegetable source); Glycyl Alcohol

Code No

Uses Emulsifier, emollient, plasticizer, humectant, sweetener, antifreeze, in surface coatings and paints, cosmetics, drug

and food products. Intermediate for making glycerol derivatives.

Chemical Family No Data Available

Chemical Formula $C_3H_8O_3$ **Chemical Name** Glycerine

Product Description No Data Available Arman sina.co Company

Contact Information info@armansina.com www.armansina.com

2. HAZARD IDENTIFICATION

Hazard Classification NOT hazardous

Symbol



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
1, 2, 3-Propanetriol	C ₃ H ₈ O ₃	56-81-5	99.0 - 100.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed Rinse mouth. Call a POISON CENTRE or doctor/physician if you feel unwell.

Eye Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.

Skin Remove contaminated clothing. Wash off with soap and plenty of water. Get medical attention if irritation develops or

persists. If skin irritation occurs: Get medical advice/attention.

Inhaled If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention, if needed

Advice to Doctor Treat symptomatically based on individual reactions of patient and judgement of doctor.

General advice: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated

clothing before reuse.

Medical Conditions Aggravated

by Exposure

No information available on medical conditions which are aggravated from exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move

fire exposed containers from fire area if it can be done without risk.

Flammability Conditions Product is a combustible liquid.

Extinguishing Media In case of fire, appropriate extinguishing media include water, Alcohol resistant foam, Carbon Dioxide or dry chemical.

Fire and Explosion Hazard Contact of glycerine with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide,

Potassium Chlorate, or Potassium Permanganate may cause an explosion.

Hazardous Products of

Combustion

 $\label{eq:During burning poisonous acrolein may be formed.}$

Special Fire Fighting Instructions Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Personal Protective Equipment Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting

clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

Flash Point 180 °C

Lower Explosion Limit

Upper Explosion Limit

No Data Available

Auto Ignition Temperature

No Data Available

Hazchem Code

No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery.

Use clean, non-sparking tools and equipment.

Clean Up Procedures Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to

soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual

contamination. Never return spills in original containers for reuse.

Containment Stop leak if safe to do so.

Decontamination Following product recovery, flush area with water.

Environmental Precautionary Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the

Measures Environmental Protection Authority or your local Waste Authority.

Evacuation Criteria Evacuate all unnecessary personnel.

Personal Precautionary Measures Personnel involved in the clean up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling No special precautions required, but avoid eye and skin contact as part of normal industrial hygiene. Prevent

formation of mist. Eye and skin contact should be avoided if handling at elevated temperatures. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding

and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours.

Storage Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for

deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Avoid contact with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate. This product is classified as a 'C2' Combustible Liquid for

the purpose of storage and handling in accordance with the requirements of AS1940.

Container Store in original packaging as approved by manufacturer. Store in clean tight containers to prevent moisture pickup

from air. Can be stored in aluminum, stainless steel, fiberglass or resin lined steel vessels.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Glycerin (mist) CAS no: 56-81-5

TWA = 10 mg/m3

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when

calculated over a normal 8 hour working day for a 5 day working week.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Exposure Limits No Data Available

Biological Limits No information available on biological limit values for this product.

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. Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation may be necessary if working at elevated temperatures or in enclosed areas.

Personal Protection Equipment RESPIRATOR: None required for ambient temperature, although an appropriate approved air-purifying respirator

should be used if a mist, vapour or dust is generated. An approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. WARNING: Air purifying

respirators do not protect workers in oxygen-deficient atmospheres (AS1715/1716).

EYES: None required, although eye protection is recommended as part of good industrial hygiene (AS1336/1337).

HANDS: None required with normal use (AS2161).

CLOTHING: Normal work clothing and safety footwear (AS3765/2210).

Work Hygienic Practices No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceClear LiquidOdourBlandColourWater white

pH No Data Available

Vapour Pressure <= 0.008 mm Hg / 2.1 e-005 IPa (@ No Data Available)

Relative Vapour Density No Data Available

Boiling Point 290°C
Melting Point 18°C

Freezing Point No Data Available

Solubility 100% Specific Gravity 1.26 Flash Point 180 ºC

Auto Ignition Temp No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available Density No Data Available Specific Heat No Data Available Molecular Weight No Data Available **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

Volatile Percent No Data Available **VOC Volume** No Data Available **Additional Characteristics** No Data Available Potential for Dust Explosion Product is a liquid. Fast or Intensely Burning No Data Available

Characteristics

Flame Propagation or Burning

Rate of Solid Materials

Non-Flammables That Could

Contribute Unusual Hazards to a

Properties That May Initiate or Contribute to Fire Intensity

No Data Available

No Data Available

No Data Available

Reactions That Release Gases or No Data Available

Vapours

Release of Invisible Flammable

Vapours and Gases

No Data Available

10. STABILITY AND REACTIVITY

General Information Combustible liquid.

Physical/Chemical Hazards: Contact of glycerine with strong oxidizing agents such as Nitric Acid or other strong

acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.

Chemical Stability Product is stable under normal conditions of use, storage and temperature.

Conditions to Avoid None identified.

Materials to Avoid Contact of glycerine with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide,

Potassium Chlorate, or Potassium Permanganate may cause an explosion.

Hazardous Decomposition

Products

Irritants. Toxic gas. Thermal decomposition may release acrolein.

Hazardous Polymerization will not occur. **Hazardous Polymerisation**

11. TOXICOLOGICAL INFORMATION

General Information **TOXICITY DATA:**

LD50 oral, rat >2000 mg/Kg **IRRITATION DATA** Skin, rabbit: Not irritating Eye, rabbit: Not irritating

Eyelrritant Accidental exposure to the eyes will cause only a mild but transient irritation.

Ingestion Unlikely to be harmful unless excessive amount.

Inhalation Not applicable at ambient temperature. Glycerine mist may be irritative to respiratory tract.

Skinlrritant Unlikely to be irritant. Heated product may cause thermal burns if contacted.

Carcinogen Category No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity 1,2,3PROPANETRIOL (56815):

LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 51000 - 57000 mg/l 96.00 hours

Ecotoxicity: Components of this product have been identified as having potential environmental concerns. Environmental effects: An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal

Persistence/Degradability Product is biodegradable. Even though this product is readily biodegradable, it must not be indiscriminately

discarded into the environment.

Mobility Not established.

Environmental Fate No Data Available
Bioaccumulation Potential Not established.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local regulations. All empty packaging should be disposed of in

accordance with Local Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport

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

Sea Transport

IMDG

GLYCERINE Proper Shipping Name Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Air Transport IATA

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

15. OTHER INFORMATION

Revision

Key/Legend < Less Than

> Greater Than atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm Square Centimetres

CO2 Carbon Dioxide

COD Chemical Oxygen Demand

Degrees Celcius Degrees Farenheit

g Grams

g/cm Grams per Cubic Centimetre

g/I 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/m Kilograms per Cubic Metre

Ib 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.

Itr or L Litre m Cubic Metre mbar Millibar mg Milligram

mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m 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