



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product Identification

Product Name : Refined Glycerine
Trade Name : Mاسcerol Gly-01, Mاسcerol Gly-02, Mاسcerol Gly-03
Other Identifier : Glycerol, Glycerin, 1,2,3-Propanetriol, Trihydroxypropane, 1,2,3-trihydroxypropane
Recommended Use : Moisturizing agent for personal care and cosmetic products, ingredient for emulsifier, based ingredient for pharmaceutical application, e.g. cough syrup.

Company Identification

Manufacturer Name : P.T.Musim Mas
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North America/Canada : +1-800-424-9300 (Chemtrec)

2. HAZARD IDENTIFICATION

GHS Classification

Physical Hazard : Not classified as hazardous substance
Health Hazard : Not classified as hazardous substance
Environmental Hazard : Not classified as hazardous substance

GHS Label Element

Hazard Symbol : None
Signal Word : None
Hazard Statement : None
Precautionary Statement : None

Other Hazard : None

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substance

Chemical Name : 1,2,3-Propanetriol
Synonym : Glycerol, glycerin, trihydroxypropane, 1,2,3-trihydroxypropane
CAS No : 56-81-5
EINECS No : 200-289-5
Ingredients or impurities that contribute to hazard : This product doesn't have impurities that contribute to the hazard classification



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4. FIRST AID MEASURES

Eye Contact	: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
Skin Contact	: Wash skin with plenty of water.
Ingestion	: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Inhalation	: Move person to fresh air; if effects occur, consult a physician.
Most important symptoms/effects, acute and delayed	: Not available.
Indication of immediate medical attention and special treatment needed	: Not available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media	: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Unsuitable extinguishing Media	: Water. Do not use direct water stream. May spread fire.
Specific hazards arising from the substance or mixture	: None known.
Special protective equipment for fire-fighters	: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.
Special protective action for fire-fighters	: Keep away from source of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use gloves, face shield
Environmental precautions	: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
Methods and materials for containment and cleaning up	: Recover spilled material if possible. Contain spilled material if possible. Absorb with materials such as: Sand and other inert absorbent. Collect in suitable and properly labeled containers and remove to safe place. Flush away remainder with water. Dispose off in accordance with local, state and federal regulation.



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7. HANDLING AND STORAGE

- Precautions for safe handling : Avoid contact with eyes and skin.
Use gloves and wear goggles when handling.
Always work safely around open hatches on bulk tanks.
- Conditions for safe storage including any incompatibilities : Keep in a cool and dry place, avoid extreme heat and cold.
Avoid direct fire. Keep separate from strong oxidizing agents.
Keep containers tightly closed.
Avoid direct sunlight.
- Store in clean, dry, preferably stainless steel vessels.
In bulk, store at ambient temperature. For pumping, heat up to above 60 deg C.
Temperature higher than necessary degrades quality at rate dependent on time and temperature of exposure.
Exposure to ultraviolet light and sunlight must be minimised to prevent quality loss.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	Exposure limit	Category	Origin
Glycerol	10mg.m ⁻³	mist	-

- Appropriate engineering controls : Good general ventilation (typical 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Individual protection measures, such as personal protective equipment

- Eye/Face Protection : Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer
- Skin Protection : Hand protection : Wear protective gloves
Other : Wear suitable protective clothing
- Respiratory Protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Thermal Hazards : Not available.
- Environmental exposure controls : Not available.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Information

Appearance	
Physical State	: Viscous Liquid
Colour	: Colorless
Odour	: Characteristic odour
Odour threshold	: Not Available
pH	: 5.5 - 7.2 (50% solution)
Melting point/freezing point	: 18°C / -46.5°C(66.7% glycerine solution)
Initial boiling point and boiling range	: 290°C at 1013 hPa
Flash point	: 199°C (Pensky-Martens closed cup)
Evaporation rate	: Not applicable
Flammability (solid,gas)	: Not available
Upper/lower flammability or explosive limits	: Not available
Vapour pressure	: 0.26 hPa at 100° C
Vapour density	: 3.2 (relative, air=1)
Relative density	: 1.26 g/cm ³ at 20° C
Solubility	: Miscible
Partition coefficient :n-octanol/water	: log Kow -1.76
Auto-ignition temperature	: 393 °C
Decomposition temperature	: Not available
Viscosity	: 1410 mPa.s at 20° C
Explosive properties	: Not applicable
Oxidizing properties	: Not applicable

Other Information : No relevant additional information available

10. STABILITY AND REACTIVITY

Reactivity	: Avoid contact with oxidizing agents(example: peroxides, chromates and nitric acid)
Chemical stability	: Stable under recommended storage conditions. Hygroscopic.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Avoid temperatures exceeding the flash point. Exposure to elevated temperatures can cause product to decompose. Avoid moisture.
Incompatible materials	: Avoid contact with oxidizing agents(example: peroxides, chromates and nitric acid)
Hazardous decomposition products	: None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: Acute oral toxicity LD ₅₀ : Rat : range from >5000 to 58400 mg/kg bw
Skin corrosion/irritation	: Not available
Serious eye damage/irritation	: Not available
Respiratory or skin sensitization	: Not available
Mutagenicity	: No data that indicates glycerine to have a genotoxic potential.
Carcinogenicity	: Not available
Reproductive toxicity	: Contains no ingredient listed as toxic to reproduction
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available



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12. ECOLOGICAL INFORMATION

Ecotoxicity	: Acute aquatic hazard 96hr LC ₅₀ (for fish) : 184 000 mg/L (ECOSAR-QSAR)
Persistence and Degradability	: Readily biodegradable
Bioaccumulative potential	: Not bioaccumulate
Mobility in soil	: Miscible in water
Result of the PBT and vPvB assesment	: Not a PBT or vPvB substance
Other adverse effects	: Not available

13. DISPOSAL CONSIDERATIONS

Disposal methods	: Disposal method is in accordance with all applicable national environment laws and regulations.
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14. TRANSPORT INFORMATION

Land Transport (ADR/RID)	: Not classified as dangerous goods
Sea Transport (IMDG Code)	: Not classified as dangerous goods
Air Transport (IATA)	: Not classified as dangerous goods
Inland waterways Transport (ADN)	: Not classified as dangerous goods
Transport in Bulk (Annex II of MARPOL 73/78 and the IBC code)	
Product Name	: Glycerine
Ship Type	: None
Pollution category	: Z

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture :

Inventories List

ENCS (Japan)	: Yes (MITI No. : 2-242)
TSCA (USA)	: Yes
EINECS (EU)	: Yes (EINECS No. : 200-289-5)
AICS (Australia)	: Yes
DSL (Canada)	: Yes
KECL (Korea)	: Yes (KCEL No. : KE-29297)
PICCS (Phillipines)	: Yes
IECSC (China)	: Yes

Chemical Safety assesment	: No information available.
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16. OTHER INFORMATION

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