



# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

### Product Identification

|                  |                                                                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name     | : Refined Glycerine                                                                                                                                              |
| Trade Name       | : Mascerol GLY01, Mascerol GLY02, Mascerol GLY03                                                                                                                 |
| Other Identifier | : Glycerol, Glycerin, 1,2,3-Propanetriol, Trihydroxypropane, 1,2,3-trihydroxypropane                                                                             |
| Recommended Use  | : Moisturizing agent for personal care and cosmetic products.<br>Ingredient for emulsifier.<br>Based ingredient for pharmaceutical application, e.g. cough syrup |

### Company Identification

|                              |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------|
| Manufacturer Name            | : PT Musim Mas                                                                       |
| Address                      | : Jalan Raya Pelabuhan CPO Kabil, Nongsa,<br>29467 Batam, Kepulauan Riau, Indonesia. |
| Telephone Number             | : +62 778 711 571<br>+62 778 711 572                                                 |
| Fax Number                   | : +62 778 711 573                                                                    |
| Email Address                | : oleo@musimmas.com                                                                  |
| Emergency Telephone Number : | : +62 812 7020 283                                                                   |

## 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 OF INGREDIENTS

### Substance

|                                                     |                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Chemical Name                                       | : 1,2,3-Propanetriol                                                                |
| Synonym                                             | : Glycerine, 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 |

## 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, prefer an ophthalmologist. |
| Skin Contact | : Wash skin with plenty of water.                                                                                                                                                                                                   |
| Ingestion    | : If swallowed, seek medical attention. Do not induce vomiting unless directly to do so by medical personnel.                                                                                                                       |
| Inhalation   | : Move person to fresh air; if effects occur, consult a physician.                                                                                                                                                                  |

# SAFETY DATA SHEET

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 substances or mixture : None known.

Special Protective action for fire-fighters : Wear positive-pressured 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 equipment 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 glove, face shield

Environmental precautions : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods and material 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.

## 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 safety 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 °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      | 100mg.m <sup>-3</sup> | mist     | -      |

Appropriate Engineering Control : Good general ventilation (typical 10 air changes per hour) should be used.  
Ventilation rate should be matched to conditions.

### Individual Protection Measures, such as personnel protective equipment

Eye/Face Protection : Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer.

# SAFETY DATA SHEET

|                                 |                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Skin Protection                 | : Hand protection: Wear protective gloves<br>Other : Wear suitable protective clothing                             |
| Respiratory Protection          | : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Thermal Hazard                  | : Not available                                                                                                    |
| Environmental Exposure Controls | : Not available                                                                                                    |

## 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)                     |
| Bulk density                                 | : 1.26 g/cm <sup>3</sup> 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                              |
| Oxidising 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.<br>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 <sub>50</sub> : Rat range from >5000 to 58400 mg/kg bw |
| Skin Corrosion / irritation       | : Not available                                                                 |
| Eye Corrosion / irritation        | : Not available                                                                 |
| Respiratory or skin sensitisation | : Not available                                                                 |
| Mutagenicity                      | : No data that indicates glycerine to have genotoxic potential                  |
| Carcinogenicity                   | : Not available                                                                 |
| Reproductive toxicity             | : Contains no ingredient listed as toxic to reproduction                        |

# SAFETY DATA SHEET

STOT-Single exposure : Not available  
 STOT-repeated exposure : Not available  
 Aspiration Hazard : Not available

## 12. ECOLOGICAL INFORMATION

Ecotoxicity : Acute as aquatic hazard  
 96hr LC<sub>50</sub> (for fish): 184 000 mg/L (ECOSAR-QSAR)  
 Persistence and Degradability : Readily bioaccumulate  
 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

## 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  
 UN Number : Not available  
 UN Proper shipping name : Not available  
 Transport hazard class : Not available  
 Packing group : Not available  
 Environmental hazards : Not available  
 Special precautions for user : Not available

### 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  
 NZIoC (New Zealand) : Yes  
 DSL (Canada) : Yes  
 KECL (Korea) : Yes (KCEL No.: KE-29297)  
 PICCS (Philippines) : Yes  
 IECSC (China) : Yes  
 TSCI (Taiwan) : Yes  
 Chemical Safety Assessment : No information available

## 16. OTHER INFORMATION

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# SAFETY DATA SHEET

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