



SAFETY DATA SHEET

GLYCERINE

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: GLYCERINE

Recommended use: Chemical for industrial.

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**
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2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

- 1.) Causes skin irritation.
- 2.) May be fatal if swallowed and enters airways.
- 3.) May cause drowsiness or dizziness.
- 4.) Toxic to aquatic life with long lasting effects.
- 5.) May damage the unborn child. Suspected of damaging fertility.

Precautionary statement(s)

- 1.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 2.) Avoid release to the environment.



- 3.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 4.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 5.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: 1,2,3-Propanetriol, Glycerol

Ingredients	% (w/w)	CAS NO.
GLYCERINE	100	56-81-5

4. FIRST AID MEASURES

- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact:** Wash off with soap and plenty of water. Consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media:

no data available

Specific hazards arising from Chemicals:

Carbon oxides

Special protective equipment for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste.

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage & Unsuitable Materials:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 10 ppm (55 mg/m³), OEL 10 ppm (50 mg/m³)

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Individual Protection Measures

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin



contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection:

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor :liquid, colourless, characteristic	Evaporation rate : N/A
Melting Point : 18 °C	Specific gravity : 1.260 g/cm ³ at 25 °C
pH : N/A	Solubility in water : Soluble
Boiling point : 290 °C	Viscosity : N/A
Vapour pressure : 0.0033 hPa at 50 °C	Vapour density : 3.1 g/l
Lower explosive limits : N/A	Upper explosive limits : N/A
Auto-ignition temperature : N/A	Flash Point : 160 °C
Odour threshold : N/A	Flammability (solid, gas) : N/A
Decomposition temperature : N/A	Solubility in other solvents : N/A
n-octanol/water partition coefficient (log P_{ow}) : N/A	

10. STABILITY AND REACTIVITY

Chemical stability:	No data available
Reactions:	No data available
Possibility of hazardous reactions:	No data available
Conditions to avoid:	No data available
Materials to avoid:	Strong bases, Strong oxidizing agents
Hazardous decomposition products:	Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 Oral - rat - 12.600 mg/kg
Sensitization:	May be harmful if inhaled. May cause respiratory tract irritation.



May be harmful if swallowed. May be harmful if absorbed through skin.

May cause skin irritation.

Causes eye irritation.

Chronic toxicity: No data available

Further toxicological information: No data available

12. ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish
LC50 - Carassius auratus (goldfish) - > 5.000 mg/l
LC50 - Pimephales promelas (fathead minnow) - 44.000 mg/l
LC50 - other fish - > 100.100 mg/l
LC50 - Oncorhynchus mykiss (rainbow trout) - 67.500 mg/l - 96 h

Biodegradability Remarks: No data available

Bioaccumulative Potential: No data available

Mobility: No data available

Affected in any other way: No data available

13. DISPOSAL CONSIDERATIONS

Material Disposal: Offer surplus and non-recyclable solutions to a licensed disposal company.

Container Disposal: Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/ADNR

Not dangerous goods

IMGD

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

GHS-Labeling

Hazard statement(s):



no data available

Precautionary statement(s):

No data available

R - phrase(s):

No data available

S - phrase(s):

No data available

16. OTHER INFORMATION

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