82/80 ซอยเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แขวงคลองตันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110โทร0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

SAFETY DATA SHEET

ETHYLENE GLYCOL

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

Product name: ETHYLENE GLYCOL

Recommended use: Chemical for industrial

Manufacturer/Supplier: MODERN CHEMICAL CO.,LTD.

82/80 Soi Ekamai 22 (Nuannoi), Sukhumvit 63,

Klong Tan Nuea, Watthana, Bangkok 10110

Telephone No: 0-2715-0897-9, 0-2392-3410-3

Fax No: 0-2715-0908-9, 0-2391-1571-2

Emergency Telephone No: 0-2715-0897-9, 0-2392-3410-3

2. HAZARDS IDENTIFICATION

Label elements

Pictogram

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Signal word

Warning

Hazard statement(s):

1.) Harmful if swallowed.

Precautionary statement(s):

- 1.) Wash skin thoroughly after handling.
- 2.) Do not eat, drink or smoke when using this product.
- 3.) IF SWALLOWED: call a doctor/physician if you feel unwell.
- 4.) Rinse Mouth.
- 5.) Dispose container in accordance with regulations.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: 1,2-Ethanediol, EG, MEG

Ingredients	% (w/w)	CAS NO.
ETHYLENE GLYCOL	100	107-21-1

4. FIRST AID MEASURES

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:

No data available.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEAS

Precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation.

Environmental precautions: Do not let product enter drains.

Methods and Material for Containment and Clean Up:

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

suitable, closed containers for dispose.

7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precaution see section 2.

Conditions for Safe Storage & Unsuitable Materials:

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 100 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 air-filtering respirators are suitable.

Hand protection: Wear impervious chemical resistant gloves.

Eye protection: Avoid eye contact. Chemical type goggles should be worn. Do not wear contact lenes

Skin and body protections: Workers should be wash exposed skin several times daily with soap and water.

Soiled work clothing should be laundered or dry - cleaned.

Hygiene measures: Immediately change contaminated clothing. Apply skin-protective barrier cream.

Wash hands and face after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor: liquid, colorless, sweetish	Evaporation rate : N/A	
Melting Point : -12 °C	Specific gravity: 1.1151-1.1156 g/cm ³ at 20 °C	
pH: N/A	Solubility in water: Soluble at 20 °C	
Boiling point : 198 °C	Viscosity: N/A	
Vapour pressure : 0.06 mmHg at 20 °C	Vapor density (air=1): N/A	
Lower explosive limits: 1.8 %Vol	Upper explosive limits: 12.8 %Vol	
Auto-ignition temperature : 410 °C	Flash point: 111 °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		

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10. STABILITY AND REACTIVITY

Chemical Stability: No data available.

Reactions: No data available.

Possibility of Hazardous Reactions: From explosive gas mixture with air. Reacts with strong oxidizing agents.

Conditions to avoid: Heating

Materials to avoid: aluminium, chromyl chloride, alkali hydroxides, perchloric acid, strong

oxidizing agents strong acids, strong bases, aldehydes.

Hazardous decomposition products: carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 (oral, rat): 4700 mg/kg

Sensitization: Harmful if swallowed.

Chronic toxicity: No data available.

Further toxicological information: No data available.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

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

Must not be disposed of together with household garbage. Do not allow product to

reach sewage system. Hand over to disposers of hazardous waste. Must be specially

treated under adherence to official regulations. Consult state, local or national

regulations for proper disposal.

MCC

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Container Disposal:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

ADR/ADNR

Not dangerous goods

IMGD

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

Regulatory information:

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

16. Other Information

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