



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Ethylene Glycol Mono Ethyl Ether
Trade Name: IGSOL –12026 E
Synonyms: 2-(ethoxy ethoxy) – ethanol, Ethyl glycol
CAS Number: 110-80-5
Chemical Formula: C₄H₁₀O₂
Recommended Use: For laboratory and manufacturing use only

COMPANY IDENTIFICATION

Supplier: UNION PETROCHEMICAL PUBLIC COMPANY LIMITED
728 Union House Building, Baromratchonnani Rd.,
Bangbumru, Bangplad, Bangkok 10700
Supplier General Contact: +662 881 8288

This (M)SDS is a generic document with no country specific information included.

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Warning! Combustible liquid and vapor. Cause irritation to eyes and skin. May be harmful if swallowed or inhaled. Affects kidneys.

POTENTIAL HEALTH EFFECTS:

Inhalation: Low vapor pressure indicates a low inhalation hazard unless this material is heated or misted. Inhalation of high concentrations of vapor or mist may cause kidney damage.

Ingestion: Ingestion may cause kidney damage, nervous system and respiratory depression.

Skin Contact: May cause mild irritation.

Eye Contact: Mild irritant. May cause reddening and slight pain.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

N/A

SECTION 4 FIRST AID MEASURES

INHALATION

Affected person should be moved to fresh air and made to rest.



EYE AND SKIN CONTACT

The vapors at high concentration is irritant to eyes and skin. Wash with plenty of water..

INGESTION

Make victim drink plenty of water, induce vomiting, treat symptomatically. Take medical advice immediately, if exposed to the material externally or internally ingestion.

SECTION 5

FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Water, CO₂, foam, powder

SPECIAL RISK

Combustible. Development of hazardous combustion gases or vapors possible in the event of fire. Take measures to prevent electrostatic charging.

SECTION 6

ACCIDENTAL RELEASE MEASURES

PERSON-RELATED PRECAUTIONARY MEASURES

Do not inhale vapors/ aerosols. Avoid substance contact.

PROCEDURE FOR CLEANING/ABSORPTION

Take up with liquid - absorbent material (e.g. sawdust, sand, clay etc.). Forward for disposal. Clean up affected area

SECTION 7

HANDLING AND STORAGE

HANDLING

No special precaution except the standard safety equipment like goggles and gloves.

STORAGE

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

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Required when vapors / aerosols are generated

Eye protection: Safety goggles required

Hand protection: Hand gloves required.

Industrial hygiene: Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hand after working with substance. Avoid the containers in open condition.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Liquid

Color: Colorless

Odour: Weak

Odour Threshold: N/A

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

Relative Density (at 20°C):	N/A		
Density:	N/A		
Specific gravity (at 20°C):	Approximately 0.930		
Flammability (Solid, Gas):	N/A		
Flash Point:	45°C		
Flammable Limits (Approximate volume % in air):	LEL: N/A	UEL: N/A	
Autoignition Temperature:	N/A		
Boiling Point and Range:	Approximately 135°C		
Decomposition Temperature:	N/A		
Vapor Density:	N/A		
Vapor Pressure:	N/A		
Evaporation Rate (n-butyl acetate = 1):	N/A		
pH:	N/A		
Log Pow (n-Octanol/Water Partition Coefficient):	N/A		
Solubility:	Water:	Soluble	
	Ethanol:	Soluble	
	Acetone:	Soluble	
Viscosity:	N/A		

OTHER INFORMATION

Freezing Point:	N/A
Melting Point:	N/A
Molecular Weight:	90.12
Hygroscopic:	Yes
Coefficient of Thermal Expansion:	N/A

SECTION 10**STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: Direct exposure to sunlight, hot atmosphere and away from electric spark as well as flammable substances.

SUBSTANCES TO AVOID: Strong oxidizing agents, alkali metals.

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous products known.

SECTION 11**TOXICOLOGICAL INFORMATION****INFORMATION ON TOXICOLOGICAL EFFECTS**

<u>Route of Exposure</u>	<u>Conclusion/Remarks</u>
Ingestion	
Acute Toxicity (Rat): LD50 > 3000 mg/kg	N/A

FURTHER DATA

The product should be handled with the care usual when dealing with chemicals

SECTION 12**ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

ENVIRONMENTAL FATE

When released into the soil, water, this material may biodegrade to a moderate extent and also not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into



the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

SECTION 13 DISPOSAL CONSIDERATIONS

Clean up with inert substance like sand. Dispose this off as per the local regulations. Do not discharge in sewer system. Disposal should be in accordance with local, state or national legislation.

SECTION 14 TRANSPORT INFORMATION

UN Number: 1171
ERG Number: 127
Hazard Class & Division: 3
Flammable liquid Group: III
HAZECHEM: 2s
EAC: 26

SEA

UN Number: 1171
Hazard Class & Division: 3
Packing Group: III-

AIR

UN Number: 1171
Hazard Class & Division: 3
Packing Group: III

SECTION 15 REGULATORY INFORMATION

SUBSTANCE NAME:

IGSOL-12026E (Ethylene glycol mono ethyl ether)

NFPA RATINGS:

Health: 1 Flammability: 1 Reactivity: 0

LABEL. HAZARD WARNING:

Warning! Combustible liquid and vapor. Cause irritation to eyes and skin. May be harmful if swallowed or inhaled. Affects kidneys.

LABEL. PRECAUTIONS:

Keep away from heat and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling

SECTION 16 OTHER INFORMATION

N/A = Not available

This information only concerns the above mentioned product as supplied and may not be valid if used with other products or in any process. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

The information and recommendations contained herein are, to the best of Union Petrochemical's knowledge and belief, accurate and reliable as of the date issued. You can contact Union Petrochemical to insure that this document is the most current available from Union Petrochemical. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the

Product Name: Ethylene Glycol Mono Ethyl Ether

Revision Date: 7 Sep. 2015

Page 5 of 5



intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.
