



KIMYAGARAN
Emrooz
Chemical Industries Co.

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: KEMPG

Product Description: Propylene Glycol

CAS No.: 57-55-6

Product Formulation: Not Available.

Common Names: 1,2-dihydroxypropane, methylethylene glycol, methyl glycol, propylene glycol, propane-1,2-diol, 1,2-propylene glycol, alpha-propylene glycol, 1,2(R,S)-propanediol, 2,3-propanediol, 2-hydroxypropanol, DL-1,2-propanediol, dl-propylene glycol, Dowfrost, isopropylene glycol, methylethyl glycol, monopropylene glycol

Chemical Family: Glycols

Manufacturer: Kimyagaran Emrooz Chemical Industries Co.

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2. HAZARDS IDENTIFICATION

Eye: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely. Mists may cause eye irritation.

Skin: Prolonged contact is essentially nonirritating to skin. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Repeated exposures may cause flaking and softening of skin. May be absorbed in potentially harmful amounts when applied in large quantities to severe burns (second or third degree) over large areas of the body as part of a cream or other topical application. Absorption under such circumstances can elevate serum osmolality and may result in osmotic shock.

Ingestion: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

Inhalation: At room temperature, vapors are minimal due to physical properties. Mists may cause irritation of upper respiratory tract.

3. COMPOSITION

Chemical Name	Wt.%	CAS No.
Propylene Glycol	Min. 99.9	57-55-6

4. FIRST AID MEASURES

General: Treat symptomatically

Inhalation: remove to fresh air. Keep at rest.

Ingestion: Rinse mouth and then drink plenty of water .

Eye Contact: Irrigate with clean water or eye-wash solution for at least 10 minutes, holding the eye lids apart. Obtain medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash skin with with soap and water. Obtain medical advice if skin irritation persists.

5. FIRE-FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam.

Flash Point: 99 °C

Autoignition Temperature: 370 °C

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: aldehydes, carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental precautions: - Prevent liquid from entering drains, sewers or water courses and also basements and work pits. Absorb spillage on earth, sand or other absorbent material and dispose of via an authorized disposal contractor. If substance has entered a water course or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Do not breathe vapor.

Ensure adequate ventilation. Take necessary action to avoid static electricity discharges (which may cause ignition of organic vapors).

Ensure eye wash bottle with clean water is readily available. Wash thoroughly after

Storage: Store in a cool dry well-ventilated place away from oxidizing materials.

The material is hygroscopic - avoid moisture ingress by keeping containers tightly closed.

Materials suitable for storage containers are mild steel, stainless steel, butyl rubber. Unsuitable materials are copper, copper alloys, most rubbers and most plastics.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: If vapors or mists are generated.

Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: colorless viscous

Odor: Odorless

pH: Not available.

Vapor Pressure: 0.08 mm Hg @ 20 °C

Vapor Density: 2.62 (air=1)

Viscosity: 58.1 cps @ 20 °C

Boiling Point: 187 °C

Freezing/Melting Point: -60 °C

Solubility: Soluble

Specific Gravity/Density: 1.0360 g/cm³

Molecular Formula: C₃H₈O₂

Molecular Weight: 76.09

Explosion limits: 2.6% - 12.6%

Autoignition temperature: 415 °C

Flash Point: 102 °C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Product can decompose at elevated temperatures.

Incompatibility with Other Materials: Avoid contact with oxidizing materials.

Hazardous Decomposition Products: When available oxygen is limited, as in a fire or when heated to very high temperatures by hot wire or plate, carbon monoxide and other hazardous compounds such as aldehydes might be generated.

11. TOXICOLOGICAL INFORMATION

No information available at this time.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal is to be performed in compliance with local regulations. Do not dispose of via sinks, drains or into the immediate environment.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of road and railway transport regulations.

UN No.: Not Allocated

15. REGULATORY INFORMATION

Federal and State Regulations:

Pennsylvania RTK: Propylene glycol Minnesota: Propylene glycol TSCA 8(b) inventory: Propylene glycol

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R21/22- Harmful in contact with skin and if swallowed. S24/25- Avoid contact with skin and eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 1

Reactivity: 0

Specific hazard:



Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

16. OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Caution

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct since it was obtained from sources we believe are reliable. However no representation, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle, or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at his sole discretion.
