

The page features a decorative design with three blue circles of varying sizes, each composed of concentric circles in different shades of blue. These circles are connected by thin blue lines that form a triangular shape pointing downwards. The circles are positioned in the upper right and lower right areas of the page.

# KEPEG



**Kimiagaran Emrooz**

Chemical Industries.

**Material Safety Data Sheet**



## PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** KEPEG

**Product Description:** Polyethylene Glycol

**CAS No.:** 25322-68-3

**Product Formulation:**  $(C_2H_4O)_n \cdot H_2O$

**Common Names:** : Polyethylene Glycol, Polyglycol, Carbowax, PEG

**Molecular Weight:** It is different based on PEG grade

**Manufacturer:** Kimiagaran Emrooz Chemical Ind.

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## 2. COMPOSITION

Chemical Name	Wt.%	CAS No.
Polyethylene glycol	100	25322-68-3

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## 3. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

Repeated or prolonged exposure is not known to aggravate medical condition.

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## 4. FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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## 5. FIRE-FIGHTING MEASURES

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat.

**Fire Fighting Media and Instructions:**

Small Fire: Use DRY chemical powder.

Large Fire: Use water spray, fog or foam. Do not use water jet.

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## 6. ACCIDENTAL RELEASE MEASURES

**Small Spill:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

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## 7. HANDLING AND STORAGE

**Precautions:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23°C.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.



**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state and appearance:** Liquid or solid

**Odor:** Odorless

**Taste:** Not available

**Color:** Colorless or white

**pH (1% soln/water):** Not available.

**Melting Point:**

PEG 300 = -11 °C

PEG 400 = 4-8 °C

PEG 600 = 20-25 °C

PEG 1500 = 44-48 °C

PEG 4000 = 54-58 °C

PEG 6000 = 56-63 °C

**Critical Temperature:** Not available.

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## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Incompatible materials (strong oxidizing agents), dust generation, excess heat.

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Slightly Hygroscopic

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

No information available at this time.

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## **12. ECOLOGICAL INFORMATION**

No information available.

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## **13. DISPOSAL CONSIDERATIONS**

Waste may be disposed of by local regulation. Contaminated absorbent material may be disposed of in an approved land fill.

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## **14. TRANSPORT INFORMATION**

It is not classified as a dangerous substance for transport.

**UN No.:** Not Allocated

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## **15. OTHER INFORMATION**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.