



KEOL



**Kimiagaran Emrooz**

Chemical Industries.

**Material Safety Data Sheet**



## PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** KEOL

**Product Description:** Oleic Acid Ethoxylate

**CAS No.:** 9004-96-0

**Product Formulation:**  $C_{18}H_{33}O_2 (C_2H_4O)_nH$

**Common Names:** Oleic acid hydroxypolyoxy ethylene, Oleic acid polyethylene Glycol

**Chemical Family:** Nonionic Surfactants

**Manufacturer:** Kimiagaran Emrooz Chemical Ind.

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## 2. COMPOSITION

Chemical Name	Wt.%	CAS No.
Oleic Acid Ethoxylate	Min. 99.9	9004-96-0

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## 3. HAZARDS IDENTIFICATION

**Inhalation:** Negligible unless heated to produce vapors or as a mist. Vapors or finely misted materials may irritate the mucous membranes and cause irritation, dizziness, and nausea. Remove to fresh air.

**Eye Contact:** May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.

**Skin Contact:** Prolonged or repeated contact may cause irritation of the hair follicles and block sebaceous glands, causing rash, acne or dermatitis. For hot molten material, cool burned skin area by immersing in cold water or apply cold water.

**Ingestion:** May irritate the digestive tract. Seek immediate medical attention.

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## 4. FIRST AID MEASURES

**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.

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## 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:** Dry Foam, chemical powder, carbon anhydride, water spray. **Special Fire Fighting Procedures:** Use water spray to cool drums exposed to fire.

**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.

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## 6. ACCIDENTAL RELEASE MEASURES

**Methods for Cleaning Up:** Absorb with absorbent means and collect in sealed container

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

**Environmental precautions:** Keep out of sewers, drains, surface and underground water and the ground.

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## 7. HANDLING AND STORAGE

Use normal measures in the handling of chemical products Store in closed containers between 20°C and 40°C. Keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flame; store out of sun. Do not puncture, drag, or slide this container. Drum is not a pressure vessel; never use pressure to empty.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** If vapors or mists are generated, wear an organic vapor/mist respirator.

**Protective Clothing:** Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

*Oleic acid n-EO*

EO 4 MOL

**APPEARANCE:** Yellow to Amber Liquid

**SPECIFIC GRAVITY:** 0.953 ± 0.010



**pH:** 6-7

**APPRX HLB:** 7.7

**Water Solubility:** Sparingly Soluble

#### **EO 6 MOL**

**APPEARANCE:** Yellow to Amber Liquid

**SPECIFIC GRAVITY:**  $0.98 \pm 0.010$

**pH:** 6-7

**APPRX HLB:** 9.7

**Water:** Sparingly Soluble

#### **EO 9 MOL**

**APPEARANCE:** Yellow to Amber Liquid

**SPECIFIC GRAVITY:**  $1.01 \pm 0.010$

**pH:** 6-7

**Water:** Soluble

#### **EO 15 MOL**

**APPEARANCE:** Yellow to Amber Liquid

**SPECIFIC GRAVITY:**  $1.03 \pm 0.010$

**pH:** 6-7

**Water:** Soluble

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### **10. STABILITY AND REACTIVITY**

Not potentially dangerous in normal conditions of use

**Stability:** Stable.

**Conditions to Avoid:** Product can decompose at elevated temperatures.

**Incompatibility with other Materials:** Avoid contact with oxidizing materials.

**Hazardous Decomposition Products:** Combustion produces carbon monoxide, carbon dioxide along with thick smoke.

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### **11. TOXICOLOGICAL INFORMATION**

No information available at this time.

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### **12. ECOLOGICAL INFORMATION**

No information available.



### **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**

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.