

# Material Safety Data Sheet

Product Name: 8006

Revision Date: June 29, 2009

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## Section #1: Chemical Product and Company Identification

Product Name: 8006

Manufacturer / Distributor: Enerco Corporation

Address: 317 N. Bridge St., Grand Ledge, MI 48837

Telephone: (800) 292-5908

Fax: (517) 627-8037

**For chemical emergency - spill, leak, fire, exposure or accident - call CHEMTREC - day or night - (800) 424-9300**

## Section #2: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
<input checked="" type="checkbox"/> Ethylene Glycol	107-21-1	>95	unknown	unknown

☒ Indicates hazardous substances. Remainder of components comprise proprietary information. This document is prepared pursuant to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. In addition, other substances not "hazardous" per this OSHA standard may be listed.

## Section #3: Hazards Identification

**EMERGENCY OVERVIEW:** May be irritant to eyes and skin. Ingestion may cause serious injury, even death. The estimated lethal dose in humans for ethylene glycol is 1 ml/kg.

**Potential Health Effects:** See Section 11 for toxicological data

**Effects of Acute Exposure:** Eye: Slight, transient (temporary) irritation may occur.  
Skin: Slight irritation may occur. If skin is abraded (scatched or cut) may cause a more severe response.  
Inhalation: Vapors are minimal at room temperature. If material is heated or mist is produced, may cause irritation and other effects.  
Ingestion: Swallowing large amounts may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis) and kidney failure even death.

**Effects of Chronic Exposure:** Normal use of this product does not result in chronic exposure. But large repeated, prolonged exposure to skin may result in absorption of harmful amounts. Ingestion of large amounts is harmful - the estimated lethal dose in humans for Ethylene Glycol: 1 ml/kg.

**Medical Conditions Generally Aggravated by Exposure:** If skin is cut or scratched a more severe response may occur, use gloves impervious to this material even for brief exposure.

## Section #4: First Aid Measures

**Eye:** Immediately flush with water for 15 minutes - be sure eyelids are held open during flushing. If irritation occurs, consult physician.

**Skin:** Remove contaminated clothing. Flush with water for 15 minutes. If irritation occurs, consult physician.

**Inhalation:** Remove to fresh air if effects occur. Consult physician

**Ingestion:** If swallowed, induce vomiting immediately, as directed by medical personnel. Never give anything by mouth to an unconscious person. Consult physician - get medical attention. Note to physician: Early administration of ethanol may counter the toxic effects of ethylene glycol---metabolic acidosis and renal damage.  
No specific antidote - supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

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## Section #5: Fire-Fighting Measures

**NFPA Hazard Codes - (Health / Flammability / Reactivity):**

1 / 1 / 0

**Flash Point:** Greater than 200°F.

**Flammable Limits:** Not determined.

**Extinguishing Media:** Water, fog, dry chemical, carbon dioxide, foam. For large scale fires, alcohol resistant foams are preferred if available. Water may be used to flush spills away from fire exposure and to dilute spills to non flammable mixtures.

**Special Fire Fighting Procedures:** Fire fighters should wear full protective gear including self-contained breathing apparatus.

**Unusual Fire and Explosive Hazards:** Combustion may produce carbon, carbon monoxide, carbon dioxide and water. Unidentified organic compounds may be formed during combustion. Dense smoke emitted when burned without sufficient oxygen.

### NFPA Code Legend

4 - Severe Hazard  
3 - Serious Hazard  
2 - Moderate Hazard  
1 - Slight Hazard  
0 - Minimal Hazard

## Section #6: Accidental Release Measures

**Spill and Leak Procedure:** Isolate and confine spill area. Spills may be a slipping hazard. Contain spill. Keep out of drains, sewers, lakes, streams, or other water systems. Use absorbent to clean up. Transfer to suitable container for disposal.

**Disposal:** Dispose of in accordance with all applicable federal, state, and local health and environmental standards and regulations.

## Section #7: Handling and Storage

**Precautions to be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Keep container tightly closed when not in use. Do not ingest. Wash thoroughly after handling.

**Precautions to be Taken in Storage:** Store in a cool, dry place. Store below 120°F. Normal shelf life 1 year. Do not store with or near food supplies or potable water.

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## Section #8: Exposure Controls / Personal Protection

- Ventilation:** Use adequate ventilation to keep airborne levels below the exposure limits.
- Eye Protection:** Chemical safety goggles.
- Skin Protection:** Chemical resistant gloves.
- Respiratory Protection:** None needed if ventilation adequate. Respiratory protection is required for work areas where misting may occur.
- Other Protection Equipment:** Any other protective clothing or use of equipment necessary to prevent eye and skin contact.
- Permissible Exposure Limits:** OSHA PEL: for ethylene glycol - ceiling 50 ppm  
ACGIH TLV: for ethylene glycol - 100 mg/m<sup>3</sup> (39.4 ppm)

## Section #9: Physical and Chemical Properties

- Appearance:** Clear And Colorless (Unless Dye Specified) **Boiling Point (deg. F):** Greater than 212
- Odor:** Glycol Odor **Vapor Pressure:** 2.2 mg Hg @ 20°C
- pH (1% sol'n, unless noted):** 9.0-10.0 **Vapor Density:** >1.0
- Solubility in Water:** Complete **Evaporation Rate:** Similar to water

## Section #10: Stability and Reactivity

- Chemical Stability:** Stable
- Conditions to Avoid:** Avoid temperatures above 120°F or below 40°F.
- Incompatibility:** Strong bases. Strong acids. Oxidizing agents.
- Hazardous Decomposition Products:** Carbon monoxide and other toxic vapors.
- Hazardous Polymerization:** Will not occur.

## Section #11: Toxicological Information

- Skin and eye (mild irritation) are expected to be the primary target organs of this product. If ingested in quantity can be harmful to fatal. The estimated lethal dose in humans for Ethylene Glycol is 1 ml/kg.
- Ingredients as Carcinogens:** To the best of our knowledge, this product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be 'probable' or 'suspected' human carcinogens.

## Section #12: Ecological Information

- Based on component, ethylene glycol, can be toxic to mammalian wildlife. Practically non toxic to aquatic organisms on an acute basis (LC 50 >100 mg/L) in most sensitive species.

## Section #13: Disposal Considerations

- Use product for its originally intended purpose. Dispose of in accordance with applicable environmental standards and in accordance with all local, state, and federal laws and regulations.

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## Section #14: Transport Information

**DOT Proper Shipping Name:** Not Hazardous as regulated by DOT

**DOT Hazard Class:**

**DOT UN Number:**

**DOT Label:** Not Applicable

**DOT Packing Group:**

The shipping name listed above applies to a 55 gallon drum of the product. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment.

## Section #15: Regulatory Information

**TSCA:** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**RCRA Hazard Class:** No components of this product are listed.

**CERCLA RQ:** Listed "Ethylene Glycol" RQ 5,000 Lbs.

### SARA Title III

**Extremely Hazardous Substance:** No components of this product are listed.

**Hazardous Substance:** Listed: Ethylene Glycol

**Hazard Catagorization:**

<input type="checkbox"/> Sudden Release of Pressure	<input checked="" type="checkbox"/> Immediate (Acute) Health
<input type="checkbox"/> Reactive	<input type="checkbox"/> Delayed (Chronic) Health
<input type="checkbox"/> Fire	

**Section 313 Chemicals:** This product contains the following EPCRA Section 313 chemical subject to the reporting requirements of Section 313 of The Emergency Planning and Community Right-To-Know Act of 1986(40DFR372)

CAS Number	Chemical Name
107-21-1	Ethylene Glycol

This information should be included in all MSDS's that are copied and distributed for this material.

### STATE RIGHT-TO-KNOW

CHEMICAL NAME	CAS NUMBER	LIST
Ethylene Glycol	107-21-1	MA,MN,NJ1,NY,PA1,PA3

MA=Massachusetts Hazardous Substance. MN=Minnesota Hazardous Substance NY=New York Hazardous Substance  
NJ1=New Jersey RTK Hazardous Substance PA1=Pennsylvania Hazardous Substance (present at greater than or  
equal to 1.0%) PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%.)

## Section #16: Other Information

We believe that the statements, technical information, and recommendations contained herein are reliable. However, since data, safety standards, and government regulations are subject to change and conditions of handling and of use or misuse are beyond our control, and since health and safety precautions given may not be adequate for all individuals and/or situations, we make no warranty, either expressed or implied, with respect to the continuing accuracy of the information contained herein.