

Safety Data Sheet

Product Name: 8116

Revision Date: June 4, 2015

Page 1 of 5

Section #1: Chemical Product and Company Identification

Product Name: 8116

Other mean of identification: None

Chemical use/Restrictions: For industrial, commercial, institutional use only. Not intended for household use.

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: Hazards Identification

Signal Word: **Warning**



Exclamation
Mark



Health
Hazard

<u>Classification Number and Name</u>	<u>Appendix Reference</u>	<u>Hazard Statement</u>	<u>Hazard Category</u>
C.4.1 Acute Toxicity - Oral	A.1	Harmful if swallowed	4
C.4.4 Skin Corrosion/Irritation	A.2	Causes skin irritation	2
C.4.5 Eye Damage/Irritation	A.3	Causes eye irritation	2B
C.4.12 Specific Target Organ Toxicity (Repeated Exposure)	A.9	May cause damage to organs (Kidney) through prolonged or repeated exposure (Oral).	2

Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash exposed body parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves.

Response

If swallowed: Immediately call a poison center/doctor.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention if you feel unwell.

Rinse mouth.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Disposal

Dispose of contents/container to comply with all local, state, and federal regulations.

Other Hazards: No other hazards identified during the classification process.

Unknown Acute Toxicity: No ingredients of unknown toxicity.

Safety Data Sheet

Product Name: 8116

Revision Date: June 4, 2015

Continued from previous page...

Page 2 of 5

Section #3: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %	OSHA PEL	ACGIH TLV
<input checked="" type="checkbox"/> Ethylene Glycol	107-21-1	25%	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 #4: First Aid Measures

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.

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.

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 (scratched 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 #5: Fire-Fighting Measures

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

1 / 1 / 0

NFPA Code Legend

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

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.

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.

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

Continued on next page...

Printed on: Wednesday, February 24, 2016

Safety Data Sheet

Product Name: 8116

Revision Date: June 4, 2015

Continued from previous page...

Page 3 of 5

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.

Section #8: Exposure Controls / Personal Protection

Permissible Exposure Limits: OSHA PEL: for ethylene glycol - ceiling 50 ppm
ACGIH TLV: for ethylene glycol - 100 mg/m³ (39.4 ppm)

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.

Section #9: Physical and Chemical Properties

Appearance: Clear And Colorless (Unless Dye Specified) **Flammable Limits:** Not determined.

Odor: Glycol Odor **Vapor Pressure:** 2.2 mg Hg @ 20°C

Odor Threshold: No Information Available. **Vapor Density:** >1.0

pH (1% sol'n, unless noted): 9.0 - 10.0 **Relative Density:** No Information Available.

Melting Point (deg. F): No Information Available. **Solubility in Water:** Complete

Boiling Point (deg. F): Greater than 212 **Partition Coefficient:** No Information Available.

Flash Point: Greater than 200°F. **Auto-ignition (deg. F):** No Information Available.

Evaporation Rate: Similar to water **Decomposition (deg. F):** No Information Available.

Flammability (NFPA Rating): 1 **Viscosity:** No Information Available.

Section #10: Stability and Reactivity

Reactivity (NFPA Rating): 0

Chemical Stability: Stable

Hazardous Reactions: Will not occur.

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.

Safety Data Sheet

Product Name: 8116

Revision Date: June 4, 2015

Continued from previous page...

Page 4 of 5

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.

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 size (~500 lbs) of the product offered for ground transport. 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.
(20,000 lbs of this product)

SARA Title III

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

Hazardous Substance: Listed: Ethylene Glycol

Hazard Catagorization: ☐ Sudden Release of Pressure ☒ Immediate (Acute) Health
☐ Reactive ☐ Delayed (Chronic) Health
☐ 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(40CFR372)

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%).)

Continued on next page...

Printed on: Wednesday, February 24, 2016

Safety Data Sheet

Product Name: 8116

Revision Date: June 4, 2015

Continued from previous page...

Page 5 of 5

Section #16: Other Information

Revision Date: June 4, 2015

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.