



## MATERIAL SAFETY DATA SHEET

### SECTION 1- PRODUCT AND MANUFACTURER INFORMATION

MSDS DATE: 1/3/2011

PRODUCT: **OCTAFLO EG**  
SYNONYMS: SAE/AMS 1424 TY I Deicing Fluid  
CHEMICAL FAMILY: Glycols  
FORMULA: Proprietary Blend

#### MANUFACTURED BY

OCTAGON PROCESS  
Serviced by Katapultt LLC  
30 Ramland Rd, Ste 103  
Orangeburg, NY 10962

#### EMERGENCY

CHEMTREC.....800-424-9300  
COMPANY EMERGENCY PHONE.....800 423-3375

### SECTION 2 - HAZARDOUS INGREDIENTS

<u>CHEMICAL/COMMON NAME</u>	<u>CAS-NUMBER</u>	<u>%</u>	<u>PEL-OSHA</u>	<u>TLV-ACGIH</u>
Ethylene Glycol	00107-21-1	<80	50ppm*(Ceiling)	39.4ppm (Ceiling)

\*OSHA PEL interim standard established in 1989 and later rescinded.

Product components are not considered carcinogenic by IARC, NTP or OSHA

### SECTION 3 - HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH=2 --- FLAMMABILITY=0 --- REACTIVITY=0 --- PROTECTION=B

### SECTION 4 - HEALTH HAZARD DATA

#### HEALTH EFFECTS (*Acute And Chronic*) -

EYES: May cause stinging sensation, redness and irritation.

SKIN: No adverse effects are expected

INHALATION: May cause irritation to upper respiratory system, may cause nausea, headache and vomiting.

INGESTION: Ethylene glycol has been known to cause kidney toxicity. Prolonged heavy exposure may cause CNS effects including irregular eye movements, convulsions and coma and may result in cardiac arrest and respiratory failure.

NOTE: Liver damage may be indicated by loss of appetite, jaundice, fatigue and sometimes pain/swelling on the upper right abdomen. Kidney toxicity is indicated by blood in urine, or increase/decrease in urine flow. Other signs and symptoms of exposure can include nausea, abdominal cramps, diarrhea, possible narcosis and death.

#### PRIMARY ROUTES OF ENTRY

EYES/SKIN: Yes

INHALATION: No

INGESTION: No

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Pre-existing eye disease may be aggravated.



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### SECTION 5 - FIRST AID INSTRUCTIONS

#### EMERGENCY FIRST AID PROCEDURES

**EYES:** Flood with water for at least 15 minutes. If irritation persists, get medical attention.

**SKIN:** Wash affected area with mild soap and water. Remove contaminated clothing. If irritation occurs and persists, get medical attention.

**INHALATION:** If adverse effects are noted, move to fresh air and contact a physician.

**INGESTION:** Administer 4 – 8 oz of water to dilute stomach contents. Do NOT induce vomiting – the potential of danger to lungs is greater than the poisoning hazard. Get medical attention.

### SECTION 6 - CHEMICAL DATA

BOILING POINT (F)	284°F	SPECIFIC GRAVITY (WATER=1)	1.107
VAPOR PRESSURE (mmHg)	0.07	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	2.14	EVAPORATION RATE (n-butyl acetate =1)	NA

SOLUBILITY IN WATER Complete

APPEARANCE AND ODOR INFORMATION Orange, odorless liquid

#### INCOMPATIBILITY (Materials To Avoid)

Strong oxidizing agents

#### HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion may produce carbon monoxide

#### IS THE PRODUCT STABLE

Yes

#### CONDITIONS TO AVOID FOR STABILITY

High temperatures and strong oxidizing agents

### SECTION 7 – FIRE FIGHTING INFORMATION

FLASH POINT (Method Used): >250°F (COC)

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA Product does not burn

#### SPECIAL FIRE FIGHTING PROCEDURES

Keep fire-exposed containers cool with water spray to avoid pressure build-up and potential rupture. Wear chemical resistant clothing and NIOSH/MSHA-approved SCBA (as recommended by the NFPA).

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

None



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### SECTION 8 - SPILL OR LEAK/DISPOSAL PROCEDURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Product is slippery when spilled. Spread granular cover on area. Contain spill/minimize dispersion. Keep out of drains, sewers and waterways. Comply with all spill notification regulations. All response activities must comply with HAZWOPER (refer to 29CFR 1910.120).

#### WASTE DISPOSAL METHODS

Product is biodegradable. Dispose of waste in compliance with local, state and federal regulations. Recycle waste where applicable.

### SECTION 9 – TOXICOLOGY INFORMATION

*Daphnia magna* – (static system) 48 hour LC<sub>50</sub>: 2950 mg/L (EPA 40CFR 797.1300)

*Pimephales promelas* – (static system) 96 hour LC<sub>50</sub>: 9500 mg/L (EPA 40CFR 797.1400)

### SECTION 10 – ECOLOGICAL INFORMATION

BOD: 625,000 mgO<sub>2</sub> /L = 0.56 kg O<sub>2</sub>/kg fluid

COD : 1,400,000 mgO<sub>2</sub> /L = 1.26 kg O<sub>2</sub>/kg fluid

Biodegradability – BOD<sub>5</sub>/COD = 0.56/1.26 = 0.44

### SECTION 11 - EXPOSURE CONTROL AND PROTECTION

VENTILATION Provide local forced air ventilation if used in closed area.

RESPIRATORY PROTECTION Not required with normal recommended use. Protect against inhalation of large volumes of mist during application. If engineering controls do not maintain airborne concentrations to a level adequate to protect worker health, an approved respirator must be worn. Refer to 20CFR 1910.134

PROTECTIVE GLOVES Rubber or PVC

OTHER PROTECTIVE EQUIPMENT Wear chemical goggles and appropriate clothing to prevent skin contact. Provide local eyewash stations.

OTHER ENGINEERING CONTROLS None

WORK PRACTICES All users should consult the MSDS before handling this product.

HYGIENIC PRACTICES Wash hands and face after handling this material. Immediately remove contaminated clothing and wash area thoroughly. Launder contaminated clothing before re-use.

### SECTION 12 – HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Store in a cool, dry place. Keep containers closed when not in use. Protect product from high moisture pickup.

### SECTION 13 - SPECIAL PRECAUTIONS



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MAINTENANCE PRECAUTIONS None

### SECTION 14 – OTHER INFORMATION

Acute or chronic oral consumption of this material can produce significant health problems in humans and animals.

### SECTION 15 – REGULATORY INFORMATION

#### NEW JERSEY RIGHT TO KNOW INFORMATION

Ethylene Glycol (1, 2-Ethandiol) CAS 00107-21-1 <80%  
NJ Trade Secret Registry Number 14866600000-5023(a)

#### SARA INFORMATION

SARA: Ethylene glycol is reportable under SARA III Section 313 Supplier Notification Requirements.  
SARA Hazard (311/312): Ethylene Glycol - Immediate (Acute) and delayed (chronic) health hazard.  
CERCLA: RQ = 5000 lb. Reportable Spill = 5000 lb. (535 gallons)

TSCA INFORMATION All components are listed on the TSCA Inventory.

DOT INFORMATION Not regulated

### SECTION 16 – HAZARDOUS MATERIAL IDENTIFICATION GUIDE

The follow letter codes refer to personal protective equipment (PPE) recommendations as shown in SECTION 3 of this MSDS, relative to handling hazardous chemical products.

- A Safety Glasses
  - B** ***Safety Glasses, Hand Protection***
  - C Safety Glasses, Hand Protection, Protective Apron
  - D Full Face Shield, Hand Protection, Protective Apron
  - E Safety Glasses, Hand Protection, Dust Respirator
  - F Safety Glasses, Hand Protection, Dust Respirator, Protective Apron
  - G Safety Glasses, Hand Protection, Vapor Respirator
  - H Splash Goggles, Hand Protection, Protective Apron, Vapor Respirator
  - I Safety Glasses, Hand Protection, Dust & Vapor Respirator
  - J Safety Glasses, Hand Protection, Protective Apron, Dust & Vapor Respirator
  - K Air Line Hood or Mask, Hand Protection, Full Body Suit, protective Boots
  - X Unspecified – to be determined\*
- (\*special equipment selection for site-specific applications not otherwise shown here)

The above information is accurate to the best of our knowledge, however, since data, safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Octagon Process assumes no responsibility for any injury or loss resulting from the use of the product described herein.

Prepared according to the OSHA Hazard Communication Standard (29CFR 1910.1200)  
by Octagon Process.