



450 Raritan Center Parkway • Edison, New Jersey 08837

Office (732) 346-8000 • FAX (732) 346-8010

Dear Customer:

Octagon Process is pleased to enclose the following Material Safety Data Sheet (MSDS) for your use:

EcoFlo (Type I Deicing Fluid SAE/AMS 1424) MSDS Date: 08/08/2007

This MSDS takes precedence over any previous MSDS you may have for this product.

Under the OSHA Hazard Communication Standard (29CFR 1910.1200 et seq.), all manufacturers are required to supply MSDS's to customers with the first shipment, whenever the MSDS is updated and whenever a copy is requested.

Please note that in Section 15 of this MSDS, Supplier Notification information is provided pursuant to Section 313, Title III of the Superfund Amendment and Reauthorization Act of 1986 (SARA). Please further note that if you repackage or otherwise redistribute this material you are required to send the recipient notice containing this SARA 313 information.

This MSDS contains information relative to safety and health for use in establishing safe handling procedures for your employees. Please see that this MSDS reached those in your organization responsible for health and safety practices and for OSHA compliance.

Employers subject to the provisions of the OSHA Hazard Communications Standard are required to make MSDS's available to their employees and to incorporate the information in their training programs.

Please contact our Safety and Health office if you have questions about this MSDS or if additional copies are needed.

Very truly yours,
OCTAGON PROCESS INC.

Joseph J Burgard
Vice President
Operations

enclosures:

0100Eco



MATERIAL SAFETY DATA SHEET

0100Eco

SECTION 1- PRODUCT AND MANUFACTURER INFORMATION

MSDS DATE: 08/08/2007

PRODUCT EcoFlo
SYNONYMS SAE/AMS 1424 Type I Deicing Fluid
CHEMICAL FAMILY Glycols
FORMULA Proprietary Blend

MANUFACTURED BY

Octagon Process Inc.
450 Raritan Center Parkway
Suite F
Edison, NJ 08837
732-346-8000

EMERGENCY

CHEMTREC.....800-424-9300
COMPANY EMERGENCY PHONE...201-417-1056
(24-hour)

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL/COMMON NAME CAS-NO % PEL-OSHA TLV-ACGIH

Product contains no component ingredients listed by OSHA at 29CFR 1910.1000 (Subpart Z)

Product contains no component ingredients listed as carcinogen by IARC, NTP, ACGIH, OSHA

SECTION 3 - HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH=1 FLAMMABILITY=0 REACTIVITY=0 PROTECTION=B*

*Refer to Section 11 of this document for explanation of personal protective equipment

SECTION 4 - HEALTH HAZARD DATA

HEALTH EFFECTS (Acute And Chronic)

EYES May cause a stinging sensation, redness and irritation. No chronic adverse effects are expected.

SKIN No acute or chronic adverse effects are expected under normal conditions.

INHALATION No acute or chronic adverse effects are expected under normal conditions.

INGESTION Accidental ingestion can cause minor stomach distress.

PRIMARY ROUTES OF ENTRY

EYES/SKIN: Yes

INHALATION: Yes (mist/vapor)

INGESTION: Not likely

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Pre-existing eye conditions

**SECTION 5 - FIRST AID INSTRUCTIONS**EMERGENCY FIRST AID PROCEDURES

EYES Flood with water for at least 15 minutes, holding eyelids open. If irritation persists, get medical attention

SKIN Wash exposed areas with mild soap and water. If irritation occurs and persists, get medical attention.

INHALATION If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration (mouth to mouth is preferred) if trained - get immediate medical attention.

INGESTION Accidental ingestion of a small quantity of this material: Rinse mouth with water.
If larger quantity is ingested, give victim 4 to 8 oz of water. *DO NOT INDUCE VOMITING.*
Get medical attention.

SECTION 6 - CHEMICAL DATA

<u>BOILING POINT</u>	>120°C	<u>SPECIFIC GRAVITY (WATER=1)</u>	1.14@25°C
<u>VAPOR PRESSURE (mmHg)</u>	<1.0	<u>PERCENT VOLATILE BY VOLUME (%)</u>	NA
<u>VAPOR DENSITY (AIR=1)</u>	Not Determined	<u>EVAPORATION RATE (n-butyl acetate =1)</u>	<1.0%

SOLUBILITY IN WATER Complete

APPEARANCE AND ODOR INFORMATION orange, odorless liquid

INCOMPATIBILITY (Materials To Avoid) strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS incomplete combustion may release oxides of carbon or acrolein.

WILL HAZARDOUS POLYMERIZATION OCCUR No

CONDITIONS TO AVOID FOR POLYMERIZATION None

IS THE PRODUCT STABLE Yes

CONDITIONS TO AVOID FOR STABILITY strong oxidizers, high temperatures

SECTION 7 – FIRE FIGHTING INFORMATION

FLASH POINT (Method Used) None to Boiling (COC) FLAMMABLE LIMITS Not Determined

EXTINGUISHING MEDIA Product does not burn. However, in a fire situation, some components of this product may boil off, leaving a combustible residue. Use water spray or fog, foam, dry chemical, CO₂.

SPECIAL FIRE FIGHTING PROCEDURES Keep fire-exposed containers cool with water spray. Wear chemical protective clothing and NIOSH/MSHA-approved SCBA as recommended by NFPA.

UNUSUAL FIRE AND EXPLOSION HAZARDS None



SECTION 8 - SPILL OR LEAK/DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Caution: spilled product will be slippery. If large spill, dike and contain spill. Spread inert absorbent material on area and sweep up. Place in plastic container for disposal. Keep material out of sewers and waterways. Comply with spill notification requirements. All response activities must comply with HAZWOPER (29CFR 1910.120).

WASTE DISPOSAL METHODS Dispose of waste in compliance with local, state and federal regulations. Recycle material where possible. Not considered a RCRA hazardous waste.

SECTION 9 – TOXICOLOGY INFORMATION

48 Hour LC50 (daphnia magna) 18,500 ppm
96 Hour LC50 (pimephales promelas) 16,875 ppm

SECTION 10 – ECOLOGICAL INFORMATION

Product is completely biodegradable.
BOD₅: 0.39 kgO₂/kg fluid
COD: 1.20 kgO₂/kg fluid

SECTION 11 - EXPOSURE CONTROL AND PROTECTION

VENTILATION Provide local forced-air ventilation is recommended if product is handled in confined areas.

RESPIRATORY PROTECTION Not required with normal expected use. Refer to 29CFR 1910.134 for more information concerning respiratory protective equipment.

PROTECTIVE GLOVES Rubber or PVC with long cuffs

OTHER PROTECTIVE EQUIPMENT Always wear eye protection when handling chemicals. During deicing operations, wear full-face shield and slicker suit to protect against excessive exposure. Provide local eyewash stations.

OTHER ENGINEERING CONTROLS None

WORK PRACTICES All users should consult MSDS, and be familiar with safe chemical handling practices before handling this material. Avoid eye contact.

HYGIENIC PRACTICES Wash hands and face after using this product. Remove contaminated clothing immediately. 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 away from oxidizers. Keep containers closed when not in use. Protect against high moisture pickup.

**SECTION 13 - SPECIAL PRECAUTIONS**MAINTENANCE PRECAUTIONS NA**SECTION 14 – OTHER INFORMATION**

NA

SECTION 15 – REGULATORY INFORMATIONNEW JERSEY RIGHT TO KNOW INFORMATION

Propylene Glycol (40% - 60%)	00057-55-6
Water (>10%)	07732-18-5
Non-toxic Polyol Blend (40% - 60%)	New Jersey Trade Secret Registry No 14866100000-5025P
Proprietary Additives (<2%)	New Jersey Trade Secret Registry No 14866100000-5026P

SARA INFORMATION

Product contains no components regulated under SARA III Section 313 Supplier Notification Requirements.

TSCA INFORMATION

All components of this product are listed in the TSCA Inventory.

TRANSPORTATION INFORMATION

Not Regulated by DOT

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)

PREPARED BY: J.J. Burgard (732-346-8000)