



## MATERIAL SAFETY DATA SHEET

### SECTION 1- PRODUCT AND MANUFACTURER INFORMATION

MSDS DATE: 8/1/2010

PRODUCT	<b>MAXFLO</b>
SYNONYMS	AMS 1428(Latest Issue) TY IV Anti-icing/Deicing Fluid
CHEMICAL FAMILY	Glycols
FORMULA	Proprietary Blend

#### MANUFACTURED BY

OCTAGON PROCESS  
Serviced by Katapult 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>	<u>STEL</u>
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Product contains no substances currently listed by OSHA Subpart Z (29CFR 1910.1000)

Product is not considered carcinogenic by NTP, IARC or OSHA

### SECTION 3 - HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH=0 FLAMMABILITY=0 REACTIVITY=0 PROTECTION=B

### SECTION 4 - HEALTH HAZARD DATA

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

EYES May cause a stinging sensation, redness, and irritation.

SKIN No adverse effects are expected.

INHALATION No adverse effects are expected with normal recommended use. Avoid inhalation of large volumes.

INGESTION Accidental ingestion may cause slight stomach distress.

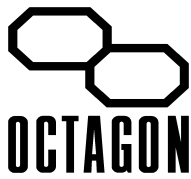
#### PRIMARY ROUTES OF ENTRY

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

INHALATION Move victim to fresh air. 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 In case of accidental ingestion, administer 4-8 oz. of water to dilute stomach contents. *DO NOT INDUCE VOMITING* - The potential of lung damage is greater than the poisoning hazard. If stomach distress persists, get medical attention.

### SECTION 6 - CHEMICAL DATA

<u>BOILING POINT</u>	212°F	<u>SPECIFIC GRAVITY (WATER=1)</u>	1.04
<u>VAPOR PRESSURE (mmHg)</u>	<0.1	<u>PERCENT VOLATILE BY VOLUME (%)</u>	N/A
<u>VAPOR DENSITY (AIR=1)</u>	>1.0	<u>EVAPORATION RATE ( n-Butyl Acetate =1)</u>	<1.0

SOLUBILITY IN WATER Complete

APPEARANCE AND ODOR INFORMATION Green colored liquid with mild odor

INCOMPATIBILITY (Materials To Avoid) Strong oxidizing agents, acids.

HAZARDOUS DECOMPOSITION PRODUCTS Incomplete combustion may produce oxides of carbon and nitrogen after the water has been driven off.

WILL HAZARDOUS POLYMERIZATION OCCUR No

CONDITIONS TO AVOID FOR POLYMERIZATION None

IS THE PRODUCT STABLE Yes

CONDITIONS TO AVOID FOR STABILITY High temperatures and strong oxidizers.

### SECTION 7 – FIRE FIGHTING INFORMATION

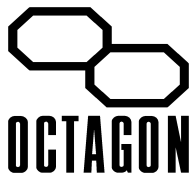
FLASH POINT (Method Used) >212°F (PMCC)

FLAMMABLE LIMITS Not Applicable

EXTINGUISHING MEDIA This product will not burn.

SPECIAL FIRE FIGHTING PROCEDURES Keep fire-exposed containers cool with water spray.

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 may be slippery when spilled. Spread granular cover on area. In confined areas wear proper protective equipment. Comply with spill notification requirements. All response activities must comply with HAZWOPER (29CFR 1910.120).

WASTE DISPOSAL METHODS Product is biodegradable. Dispose of waste in compliance with local, state and federal regulations.

### SECTION 9 – TOXICOLOGY INFORMATION

LC<sub>50</sub> (48 Hour) Fish (oncorhynchus mtkiss): 1500 ppm  
LC<sub>50</sub> (48 Hour) Daphnia (daphnia magna): 999 ppm

### SECTION 10 – ECOLOGICAL INFORMATION

BOD<sub>5</sub>: 500,000 mg O<sub>2</sub>/ L  
COD<sub>5</sub>: 850,000 mg O<sub>2</sub>/ L

### SECTION 11 - EXPOSURE CONTROL AND PROTECTION

VENTILATION Forced air ventilation is recommended if product is handled in confined areas.

RESPIRATORY PROTECTION Generally not required with normal recommended use. Protect against inhalation of large volumes of mist during application.

PROTECTIVE GLOVES Rubber or PVC

OTHER PROTECTIVE EQUIPMENT Always wear eye protection when handling chemicals. When deicing/anti-icing aircraft, use a face shield and slicker suit; *DO NOT WEAR CONTACT LENSES*. Provide local eyewash stations.

OTHER ENGINEERING CONTROLS None

WORK PRACTICES All users should consult MSDS before handling this material.

HYGIENIC PRACTICES Wash hands and face after using this product. Launder contaminated clothing before re-use.

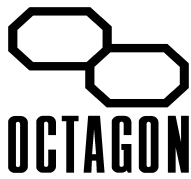
### SECTION 12 – HANDLING AND STORAGE

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 product from high moisture pickup.

### SECTION 13 - SPECIAL PRECAUTIONS

#### MAINTENANCE PRECAUTIONS

Clean all contaminated equipment before starting any repair work.



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### SECTION 14 – OTHER INFORMATION

None

### SECTION 15 – REGULATORY INFORMATION

#### NEW JERSEY RIGHT TO KNOW INFORMATION

7732-18-5      Water  
57-55-6      Propylene Glycol  
- - -      Trade Secret Registry Number 14866100000-5027P

#### SARA INFORMATION

This product contains no substances regulated under SARA III Section 313 Supplier Notification Requirements.

#### TSCA INFORMATION

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

#### DOT INFORMATION

Product is not regulated by DOT

### SECTION 16 – HAZARDOUS MATERIAL IDENTIFICATION GUIDE

The listed 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, Inc. 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.