

Illinois Oil



24 HOUR EMERGENCY ASSISTANCE

ILLINOIS OIL (309) 786-4474
Products, Inc.

SEP 26 1991

HMIS HAZARD RATING:

| | | | |
|----------|---|------------|-----|
| LEAST | 0 | HEALTH | --- |
| MODERATE | 2 | FIRE | --- |
| EXTREME | 4 | REACTIVITY | --- |
| SLIGHT | 1 | PERSONAL | --- |
| HIGH | 3 | | |

MATERIAL SAFETY DATA SHEET

SECTION 1: NAME

PRODUCT: ETHYLENE GLYCOL CHEMICAL NAME: Mixture
ANTI FREEZE & SUMMER COOLANT

| | | |
|--------------------------|------------|-------------------------|
| CHEMICAL FAMILY: GLYCOLS | NEW | OLD |
| | CODE: SAME | 1000 PEER |
| | 1100 | 1001 PEER NEW FORMULA |
| | SAME | 1009 Mil-A-46153 |
| | 1700 | 1010 EG Thermal Fluid |
| | 1701 | 1014 JOHN DEERE FORMULA |

SECTION 2-A PRODUCT/INGREDIENTS

| No. | COMPOSITION | CAS NUMBER | PERCE |
|-----|----------------------------|------------|-------|
| P | ETHLENE GLYCOL ANTI FREEZE | MIXTURE | 100 |
| 1 | 1,2 Ethanedial | 107-21-1 | >95 |
| 2 | Other Glycols | | < 1 |
| 3 | Additives | | >4% |

SECTION 2-B ACUTE TOXICITY DATA

| NO. | ACUTE ORAL LD50 | ACUTE DERMAL LD50 | ACUTE INHALATION LC |
|-----|-----------------|-------------------|---------------------|
|-----|-----------------|-------------------|---------------------|

P Not available

SECTION 3 HEALTH INFORMATION

The health effects noted below are consistent with requirements under the OSHA hazard communication standard (29 CRF 1910.1200).

EYE CONTACT: Liquid, Vapor and Mist may cause discomfort in the eye with Transient conjunctivitis. Serious corneal injury is not anticipated.

SKIN CONTACT: No evidence of adverse health effects form available information for contact or absorbtion.

INHALATION: May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations may produce nausea, vomiting, headache, and dizziness.

INGESTION: May cause abdominal discomfort or pain, dizziness, malaise
Lumbar pain, oliguria, uremia, and central nervous system
depression.

REPEATED OVEREXPOSURE:

Inhalation of mists may produce signs of central nervous involvement,
particularly dizziness and nystagmus.

Primary routes of Entry: Eyes, Inhalation, Ingestion.

| SECTION 4: OCCUPATIONAL EXPOSURE LIMITS | | | | | | |
|---|-----------------|---------------------|--------------------------|---------------------------|-------|--|
| NO. | OSHA PEL/TWA | OSHA PEL/CEILING | ACGIH 1987-88 TLV/TWA | ACGIH 1987-88 TLV/STEL | OTHER | |
| P | N.E. | N.E. | N.E. | N.E. | NONE | |
| 1 | N.A. | N.A. | 50ppm* | N.E. | NONE | |
| 2 | N.A. | N.A. | 50ppm* | N.E. | NONE | |
| 3 | N.A. | N.A. | N.E. | N.E. | NONE | |
| Carcinogenicity Listing: | | IARC <u>NO</u> | OSHA <u>NO</u> | NTP <u>NO</u> | | |

SECTION 5: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with large amounts of water - while lifting the upper
and lower lids occasionally. Get medical attention.

SKIN CONTACT: Wash thoroughly with soap and water - remove contaminated
clothing and launder before reuse.

INHALATION: Remove to fresh air - if breathing is difficult, give oxygen.
If breathing stopped, give artificial respiration, keep warm and quiet.
Get Medical attention.

INGESTION: Give two glasses of water; induce vomiting immediately by
sticking finger down throat. Call a physician. NEVER give anything
by mouth to an unconscious person.

SECTION 6: SUPPLEMENTAL INFORMATION

None known.

SECTION 7: PHYSICAL DATA

| | | |
|---|--|--|
| BOILING POINT (°C) <u>>168</u> | MELTING POINT (°C) <u>N.A.</u> | VAPOR PRESSURE (mmHg).08@20°C |
| SPECIFIC GRAVITY (H2O =1) <u>1.11 to 1.12</u> | % VOLATILE BY VOLUME <u>0</u> | VAPOR DENSITY (AIR=1) <u>2.1</u> |
| SOLUBLE IN WATER <u>Negligible</u> | EVAPORATION RATE-(BUTYL ACETATE=1) <u>0.01</u> | N.A. = Not Available N.D. = Not Determined N.E. = Not Established |
| APPEARANCE AND ODOR: Slightly Oily Liquid - Mild Odor | | |

SECTION 8: FIRE AND EXPLOSION HAZARDS

FLASH POINT AND
METHOD: ASTM D-92 115°C

| FLAMMABLE LIMITS % VOLUME IN AIR: | LOWER | UPPER |
|--------------------------------------|---------|----------|
| | 3.2 Est | 15.3 Est |

EXTINGUISHING MEDIA:

CO2 - Foam - Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: Use self contained breathing apparatus with full face mask operating in positive pressure mode. Vapors are heavier than air, can travel along the ground on normal ventilation, can move to be ignited by source away from handling point.

SECTION 9: REACTIVITY

STABILITY - UNSTABLE X STABLE

HAZARDOUS POLYMERIZATION - MAY OCCUR X MAY NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID: Avoid heat, open flames and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and various hydrocarbons.

SECTION 10: EMPLOYEE PROTECTION

RESPIRATION PROTECTION:

Normal general or local exhaust to keep below TLV.
If TLV exceeded use NIOSH approved air supply respirator.

PROTECTIVE CLOTHING:

Typical work clothing - chemical resistant gloves,
chemical splash goggles.

SECTION 11: ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES:

SMALL SPILL: Soak up with absorbent material such as clay or diatomaceous earth.

LARGE SPILL: Eliminate ignition sources, (flames, flares, sparks, etc.)
Stop spill at source and dike area to prevent spreading. Pump liquid to salvage vessel. Remainder - soak up with absorbent material such as clay or diatomaceous earth. Notify required authorities.

WASTE DISPOSAL: Liquid by incineration, contaminated absorbent deposited in landfill in accordance with local, state and federal regulations.

ENVIRONMENTAL HAZARDS: Spills entering (A) surface waters or (B) any water courses or sewers entering/leading to surface waters that may cause a sheen must be reported to the National Response Center.
1-800-424-8602.

SECTION 12: SPECIAL PRECAUTIONS

Empty containers may be hazardous - keep away from heat and open flames.
Do not reuse containers for food or drink.

SECTION 13: TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATIONS: Not hazardous by D.O.T. regulations.

SECTION 14: OTHER REGULATORY CONTROLS

The components of this product are listed on the EPA/TSCA inventory of chemical substances.

The information contained herein is based on the data available to us and is believed to be correct. However, Illinois Oil Products, Inc., makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Illinois Oil Products Inc., assumes no responsibility for injury from the use of the product described herein.

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DATE REVISED JUNE 1988

BE SAFE
READ OUR PRODUCT
SAFETY INFORMATION
... AND PASS IT ON
(Product Liability Law Requires It)