

MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/23/2014 REVISION NUMBER: 2

DATE PRINTED: 04/29/2014

1. CHEMICAL PRODUCT

PRODUCT NAME: MID-COOL IE HD

PRODUCT CODE: 119671

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health:2/2Fire:1/1Reactivity:0/0Special/Protective Equipment:None/B

Emergency Phone:

INFOTRAC: 1-800-535-5053 OUTSIDE US: 1-352-323-3500

DISTRIBUTED BY: Rochester Midland Corporation

155 Paragon Drive Rochester, NY 14624

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: May be harmful if swallowed. May cause liver and kidney damage. May cause central nervous

system effects. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue

blurred vision, slurred speech, giddiness, tremors and convulsions.

SKIN CONTACT: Prolonged contact may lead to irritation and dermatitis.

INHALATION: May cause mild respiratory irritation. Massive inhalation may be harmful. May cause Central

Nervous System effects. Excessive inhalation causes headache, dizziness, nausea and

incoordination.

EYE CONTACT: Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

CHRONIC EFFECTS: Repeated overexposure may cause damage to liver, kidney, and red blood cells.

EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.

ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION CAS# | % | ACGIH TLV | OSHA PELs |
|--------------------------------------|---------|----------------|----------------|
| Ethylene glycol 107-21-1 | 93 - 98 | Not applicable | Not applicable |
| Dipotassium phosphate 7758-11-4 | 1 - 3 | Not applicable | Not applicable |
| Corrosion inhibitor blend MIXTURE | 1 - 2 | Not applicable | Not applicable |

4. FIRST AID MEASURES

INGESTION: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical

attention. Never give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing and launder before reuse. Wash with soap and water.

MID-COOL IE HD

FIRST AID MEASURES

INHALATION: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops

or if breathing becomes difficult.

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate EYES:

medical attention.

Monitor for the effects of acute ethylene glycol poisoning. The administration of ethanol after **NOTES TO PHYSICIAN:**

ingestion of this compound acts to counter the adverse effects of this material on the liver.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: (F): $> 240^{\circ}$ **(C)**: $> 116^{\circ}$

METHOD: None

FLAMMABLE LIMITS IN AIR

LOWER (%): No data UPPER (%): No data

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is not expected.

SUITABLE EXTINGUISHING MEDIA: Dry chemical. Carbon dioxide. Water.

FIRE FIGHTING PROCEDURES: Use water spray to cool nearby containers and structures exposed

to fire. During fire, a water spray can scatter flames and should be used by experienced firefighters. Fire-fighters should wear selfcontained breathing apparatus and full protective clothing when

fighting chemical fires.

ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS: Pick up with absorbant material.

LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Be

aware of potential for surfaces to become slippery.

PERSONAL PRECAUTIONS: Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal

Protection.

ENVIRONMENTAL PRECAUTIONS: Keep out of drains, sewers, streams, or other bodies of water.

METHODS FOR CLEANING UP: Not applicable

HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not store near PRECAUTIONS TO BE TAKEN

IN HANDLING AND STORAGE: heat, sparks or flame. Avoid direct sunlight. Store in a cool, dry location away from

incompatible materials. Store in a well ventilated area. Do not puncture, incinerate or crush.

OTHER PRECAUTIONS: No other spill procedures necessary.

SPECIFIC USE(S): Not applicable.

EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:

EXPOSURE CONTROLS: None known.

RESPIRATORY PROTECTION: Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

PROTECTIVE GLOVES: Chemical resistant gloves are recommended to minimize skin contact.

EYE PROTECTION: Safety glasses are recommended to minimize eve contact.

OTHER PERSONAL PROTECTION Appropriate protective clothing as needed to prevent skin contact. It is the responsibility of the **EQUIPMENT:** end user of this product to determine level of PPE required that is consistent with safe use of

this product.

MID-COOL IE HD

VENTILATION: General mechanical or local exhaust as needed to maintain exposure below TLV or PEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Pink to red Liquid. Characteristic odor.

BOILING POINT (F): $> 387^{\circ}$ **(C)** $> 197^{\circ}$

VAPOR PRESSURE: Not determined Not determined **VAPOR DENSITY (AIR=1): SOLUBILITY IN WATER:** Not determined **SPECIFIC GRAVITY:** 1.136 **BULK DENSITY:** 9.28 lbs/gal VOC Content (%): Not determined **EVAPORATION RATE:** Not determined PH: 10.3 (50/50 dil.)

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE **POLYMERIZATION:** Will Not Occur.

HAZARDOUS DECOMPOSITION: Carbon Dioxide. Carbon Monoxide. Aldehydes. Ammonia.

INCOMPATIBILITY (MATERIALS TO Strong acids, bases and oxidizing agents.

AVOID):

CONDITIONS/HAZARDS TO AVOID: Extreme heat, direct sunlight.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not Established EFFECTS OF CHRONIC EXPOSURE: Not established. OTHER TOXIC EFFECTS: Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL No data at this time

INFORMATION:

CHEMICAL FATE INFORMATION: No data at this time.

MOBILITY: Not applicable.

PERSISTENCE/DEGRADABILITY: Not applicable
BIOACCUMULATIVE POTENTIAL: Not applicable
OTHER ADVERSE EFFECTS: Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

MID-COOL IE HD

| 15. REGULATORY INFOR | 15. REGULATORY INFORMATION | | | | | |
|------------------------------------|----------------------------|------------|------------|-------------|-------------|--|
| PRODUCT COMPOSITION CAS# | % | TSCA: | EINECS: | Canada DSL: | CA PROP 65: | |
| Ethylene glycol 107-21-1 | 93 - 98 | Listed | Listed | Listed | Not Listed | |
| Dipotassium phosphate 7758-11-4 | 1 - 3 | Listed | Listed | Listed | Not Listed | |
| Corrosion inhibitor blend MIXTURE | 1 - 2 | Not Listed | Not Listed | Not Listed | Not Listed | |

| PRODUCT COMPOSITION CAS# | % | CERCLA: | SARA 302: | SARA 313: |
|--------------------------------------|---------|--------------------|------------|----------------------------------|
| Ethylene glycol 107-21-1 | 93 - 98 | 2270 kg 5000 lb | Not Listed | = 1.0 % de minimis concentration |
| Dipotassium phosphate 7758-11-4 | 1 - 3 | Not Listed | Not Listed | Not Listed |
| Corrosion inhibitor blend MIXTURE | 1 - 2 | Not Listed | Not Listed | Not Listed |

| PRODUCT COMPOSITION CAS# | % | Canada WHMIS: |
|-----------------------------|---------|-----------------------------------|
| Ethylene glycol 107-21-1 | 93 - 98 | <row><value>D2A</value></row> D2A |

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

| PRODUCT COMPOSITION CAS# | % | MARTK: |
|-----------------------------|---------|--------|
| Ethylene glycol 107-21-1 | 93 - 98 | Listed |

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

| PRODUCT COMPOSITION CAS# | % | NJRTK | |
|-----------------------------|---------|--------|--|
| Ethylene glycol 107-21-1 | 93 - 98 | Listed | |

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

| PRODUCT COMPOSITION CAS# | % | PARTK: |
|-----------------------------|---------|--------|
| Ethylene glycol 107-21-1 | 93 - 98 | Listed |

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***