



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/23/2014

DATE PRINTED: 04/29/2014

REVISION NUMBER: 2

1. CHEMICAL PRODUCT

PRODUCT NAME: **MID-COOL E**

PRODUCT CODE: 119670

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

Health: 1/2

Fire: 1/1

Reactivity: 0/0

Special/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 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. Can be harmful if large quantities are swallowed. May cause liver and kidney damage.

SKIN CONTACT: May cause mild skin irritation.

INHALATION: Breathing small amounts during handling is not likely to cause harmful effects. 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	90 - 100	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

4. FIRST AID MEASURES

EYES:	Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.
NOTES TO PHYSICIAN:	Monitor for the effects of acute ethylene glycol poisoning. The administration of ethanol after ingestion of this compound acts to counter the adverse effects of this material on the liver.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): 232° (C): 111°
METHOD:	None
FLAMMABLE LIMITS IN AIR	
LOWER (%):	No data
UPPER (%):	No data
SENSITIVITY TO MECHANICAL IMPACT(Y/N):	NO
SENSITIVITY TO STATIC DISCHARGE:	Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA:	Carbon Dioxide, Dry Chemicals, Foam. 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 self-contained breathing apparatus and full protective clothing when fighting chemical fires.

6. 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.

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

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool, dry location away from incompatible materials. Store in a well ventilated area. Do not store near heat, sparks or flame. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container.

OTHER PRECAUTIONS:

No other spill procedures necessary.

SPECIFIC USE(S):

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:

None known.

RESPIRATORY PROTECTION:

None normally required. 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 eye contact.

OTHER PERSONAL PROTECTION EQUIPMENT:

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

VENTILATION:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Viscous liquid. Colorless Sweet odor.
BOILING POINT (F): 387.1°
VAPOR PRESSURE: Not determined
VAPOR DENSITY (AIR=1): Not determined
SOLUBILITY IN WATER: Not determined
SPECIFIC GRAVITY: 1.114
BULK DENSITY: 9.28 lbs/gal
VOC Content (%): Not determined
EVAPORATION RATE: Not determined
PH: Not determined

(C) 197.3°

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: Carbon Dioxide. Carbon Monoxide. Aldehydes.
INCOMPATIBILITY (MATERIALS TO AVOID): Aldehydes. Alkali metals. Aluminum. Strong acids, bases and oxidizing agents. Sulfur and sulfite compounds.
CONDITIONS/HAZARDS TO AVOID: Moisture. Do not expose to heat or store at temperatures above 120F.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time
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

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Ethylene glycol 107-21-1	90 - 100	Listed	Listed	Listed	Not Listed

MID-COOL E

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Ethylene glycol 107-21-1	90 - 100	2270 kg 5000 lb	Not Listed	= 1.0 % de minimis concentration

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Ethylene glycol 107-21-1	90 - 100	<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	90 - 100	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	90 - 100	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	90 - 100	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 ***