



## MATERIAL SAFETY DATA SHEET

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1

PREPARED BY:

EH&S DEPARTMENT

### 1. CHEMICAL PRODUCT

PRODUCT NAME: **F-222**

PRODUCT CODE: 119682

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

Health: 3/3

Fire: 0/0

Reactivity: 0/0

Special/Protective Equipment: ALK/C

NAME OF THE MANUFACTURER: Rochester Midland Corporation  
155 Paragon Drive  
Rochester, New York 14624  
USA

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

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

**INGESTION:** Severe burns to mucous membranes of mouth, throat and digestive tract.  
**SKIN CONTACT:** Causes severe skin irritation. Prolonged contact causes severe burns which may not be immediately painful or visible.  
**INHALATION:** Possible damage to mucous membranes of nose and throat. Inhalation of spray mist may be irritating.  
**EYE CONTACT:** May cause blindness. May cause permanent eye damage. Causes severe eye burns.  
**CHRONIC EFFECTS:** Possible respiratory damage from inhalation of dust or mist. Dermatitis.  
**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
Diethylene glycol methyl ether 111-77-3	10 - 15	Not applicable	Not applicable
SODIUM HYDROXIDE 1310-73-2	1 - 5	Not applicable	2 mg/m <sup>3</sup>
Alcohol ethoxylate 68439-46-3	1 - 5	Not applicable	Not applicable
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	Not applicable	Not applicable
Sodium metasilicate 6834-92-0	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:** Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Continue rinsing until "slippery" feeling is gone. Get medical attention if irritation or burns develop.

**4. FIRST AID MEASURES**

<b>INHALATION:</b>	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.
<b>EYES:</b>	Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.
<b>NOTES TO PHYSICIAN:</b>	None.

**5. FIRE AND EXPLOSION HAZARD DATA**

<b>FLASH POINT:</b>	(F): None to boiling (C): None to boiling
<b>METHOD:</b>	None
<b>FLAMMABLE LIMITS IN AIR</b>	
<b>LOWER (%):</b>	No data
<b>UPPER (%):</b>	No data
<b>SENSITIVITY TO MECHANICAL IMPACT(Y/N):</b>	NO
<b>SENSITIVITY TO STATIC DISCHARGE:</b>	Sensitivity to static discharge is not expected.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Product will not burn. As for surrounding fire.
<b>FIRE FIGHTING PROCEDURES:</b>	Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray. Avoid exposure to mist and splashes. Corrosive material.

**6. ACCIDENTAL RELEASE MEASURES****SPILL PROCEDURES:**

<b>SMALL SPILLS:</b>	Pick up with absorbant material. Flush residue with water.
<b>LARGE SPILLS:</b>	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

<b>PERSONAL PRECAUTIONS:</b>	Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.
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<b>ENVIRONMENTAL PRECAUTIONS:</b>	Not applicable
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<b>METHODS FOR CLEANING UP:</b>	Not applicable
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**7. HANDLING AND STORAGE**

<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:</b>	DANGER: Concentrated, alkaline liquid. Mix only with water. Store in a well ventilated area. Store in a cool, dry area. Store only in original container and keep closed. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors.
<b>OTHER PRECAUTIONS:</b>	Read and follow label instructions. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Do not reuse container.
<b>SPECIFIC USE(S):</b>	Not applicable.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****PROTECTIVE EQUIPMENT:**

<b>EXPOSURE CONTROLS:</b>	Use in a well ventilated area.
<b>RESPIRATORY PROTECTION:</b>	Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.
<b>PROTECTIVE GLOVES:</b>	Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.
<b>EYE PROTECTION:</b>	Safety glasses are recommended to minimize eye contact.

<b>OTHER PERSONAL PROTECTION EQUIPMENT:</b>	Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible. Liquid may penetrate leather shoes and cause delayed burns. 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.
<b>VENTILATION:</b>	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR:</b>	Clear brown liquid. Mild glycol ether odor.
<b>BOILING POINT (F):</b>	Not determined (C) Not determined
<b>VAPOR PRESSURE:</b>	Not determined
<b>VAPOR DENSITY (AIR=1):</b>	Not determined
<b>SOLUBILITY IN WATER:</b>	Not determined
<b>SPECIFIC GRAVITY:</b>	1.066 - 1.086
<b>BULK DENSITY:</b>	8.96 lbs/gal
<b>VOC Content (%):</b>	13.5
<b>EVAPORATION RATE:</b>	Not determined
<b>PH:</b>	13 - 14

## 10. STABILITY AND REACTIVITY

<b>STABILITY DATA:</b>	STABLE
<b>POLYMERIZATION:</b>	Will Not Occur.
<b>HAZARDOUS DECOMPOSITION:</b>	Carbon Monoxide. If evaporated to dryness, as in a fire, may release: Smoke. Fumes.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Do not mix with: Acids. Neutralizes active ingredients.
<b>CONDITIONS/HAZARDS TO AVOID:</b>	None.

## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	Not Established
<b>EFFECTS OF CHRONIC EXPOSURE:</b>	Not established.
<b>OTHER TOXIC EFFECTS:</b>	Not established.

## 12. ECOLOGICAL INFORMATION

<b>ECOTOXICOLOGICAL INFORMATION:</b>	No data at this time
<b>CHEMICAL FATE INFORMATION:</b>	No data at this time.
<b>MOBILITY:</b>	Not applicable.
<b>PERSISTENCE/DEGRADABILITY:</b>	Not applicable
<b>BIOACCUMULATIVE POTENTIAL:</b>	Not applicable
<b>OTHER ADVERSE EFFECTS:</b>	Not applicable

## 13. DISPOSAL CONSIDERATIONS

<b>WASTE DISPOSAL METHODS:</b>	Dispose in accordance with Federal, State and Local regulations.
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## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

**15. REGULATORY INFORMATION**

<b>PRODUCT COMPOSITION CAS#</b>	<b>%</b>	<b>TSCA:</b>	<b>EINECS:</b>	<b>Canada DSL:</b>	<b>CA PROP 65:</b>
Diethylene glycol methyl ether 111-77-3	10 - 15	Listed	Listed	Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	1 - 5	Listed	Listed	Listed	Not Listed
Alcohol ethoxylate 68439-46-3	1 - 5	Listed	Not Listed	Listed	Not Listed
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	Listed	Listed	Listed	Not Listed
Sodium metasilicate 6834-92-0	1 - 2	Listed	Listed	Listed	Not Listed

<b>PRODUCT COMPOSITION CAS#</b>	<b>%</b>	<b>CERCLA:</b>	<b>SARA 302:</b>	<b>SARA 313:</b>
Diethylene glycol methyl ether 111-77-3	10 - 15	Not Listed	Not Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	1 - 5	1000 lb 454 kg	Not Listed	Not Listed
Alcohol ethoxylate 68439-46-3	1 - 5	Not Listed	Not Listed	Not Listed
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	1000 lb 454 kg	Not Listed	Not Listed
Sodium metasilicate 6834-92-0	1 - 2	Not Listed	Not Listed	Not Listed

<b>PRODUCT COMPOSITION CAS#</b>	<b>%</b>	<b>Canada WHMIS:</b>
SODIUM HYDROXIDE 1310-73-2	1 - 5	Listed
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	Listed
Sodium metasilicate 6834-92-0	1 - 2	Listed

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

<b>PRODUCT COMPOSITION CAS#</b>	<b>%</b>	<b>MARTK:</b>
Diethylene glycol methyl ether 111-77-3	10 - 15	Listed
SODIUM HYDROXIDE 1310-73-2	1 - 5	Listed
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	Listed

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

<b>PRODUCT COMPOSITION CAS#</b>	<b>%</b>	<b>NJRTK:</b>
Diethylene glycol methyl ether 111-77-3	10 - 15	Listed
SODIUM HYDROXIDE 1310-73-2	1 - 5	Listed
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	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:
Diethylene glycol methyl ether 111-77-3	10 - 15	Listed
SODIUM HYDROXIDE 1310-73-2	1 - 5	Listed
Sodium dodecylbenzene sulfonate 25155-30-0	1 - 2	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 \*\*\*