



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/13/2012

DATE PRINTED: 04/13/2012

REVISION NUMBER:

9

PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **F-184, Liquid Alkaline Foam Cleaner**

PRODUCT CODE: 101820

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

Health: 3/3

Fire: 0/0

Reactivity: 1/1

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: Prolonged contact causes severe burns which may not be immediately painful or visible.
INHALATION: Inhalation of mist will irritate mucous membranes. Can cause damage to mucous membranes of nose, throat, respiratory tract and lung tissue depending on severity of exposure.
EYE CONTACT: Causes severe eye burns. Corrosive to eye tissue and may cause severe damage and blindness.
CHRONIC EFFECTS: Irritant dermatitis; possible respiratory damage from inhalation of dust or mist.
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	4.5	Not applicable	Not applicable
SODIUM HYDROXIDE 1310-73-2	18.25	Not applicable	2 mg/m ³

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. If vomiting occurs, give additional water.

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.

INHALATION: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

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

NOTES TO PHYSICIAN: None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): None (C): Not determined
METHOD:	None
FLAMMABLE LIMITS IN AIR	
LOWER (%):	NA
UPPER (%):	NA
SENSITIVITY TO MECHANICAL IMPACT(Y/N):	NO
SENSITIVITY TO STATIC DISCHARGE:	Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA:	Product will not burn.
FIRE FIGHTING PROCEDURES:	Avoid exposure to dusts, mists, and splashes. Corrosive material. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:	
SMALL SPILLS:	Mop up all possible. Flush residue with water.
LARGE SPILLS:	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.
PERSONAL PRECAUTIONS:	Not applicable
ENVIRONMENTAL PRECAUTIONS:	Not applicable
METHODS FOR CLEANING UP:	Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Danger: Corrosive. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store indoors. Store only in original container and keep closed. Store in a cool, dry area. Store in a well ventilated area.
OTHER PRECAUTIONS:	Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Do not reuse container. Contact with certain food sugars can release hazardous amounts of carbon monoxide gas in enclosed vessels. Read and follow label instructions.
SPECIFIC USE(S):	Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:	Corrosion resistant equipment recommended.
RESPIRATORY PROTECTION:	Not normally required. If product is used in a manner which creates dust or mist above recommended exposure limits, a NIOSH/MSHA approved respirator with dust/mist filter may be needed in the absence of proper environmental controls.
PROTECTIVE GLOVES:	Nitrile gloves. Neoprene. Rubber gloves.
EYE PROTECTION:	Goggles. Face shield.
OTHER PERSONAL PROTECTION EQUIPMENT:	PVC boots. Rubber apron. Rubber boots. Appropriate protective clothing as needed to prevent skin contact. Liquid may penetrate leather shoes and cause delayed burns. Eyewash fountains and safety showers must be easily accessible.
VENTILATION:	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Corrosion resistant equipment recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Slight solvent odor. Dark brown liquid.
-----------------------------	---

F-184, Liquid Alkaline Foam Cleaner

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F):	As water	(C) Not determined
VAPOR PRESSURE:	As water	
VAPOR DENSITY (AIR=1):	Not applicable	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	1.218 - 1.224	
VOC Content (%):	4.5	
EVAPORATION RATE:	As water	
PH:	> 14	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Hydrogen halides
INCOMPATIBILITY (MATERIALS TO AVOID):	Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Avoid contact with concentrated acids; may cause violent reactions.
CONDITIONS/HAZARDS TO AVOID:	None.

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:
Diethylene glycol methyl ether 111-77-3	4.5	Listed	Listed	Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	18.25	Listed	Listed	Listed	Not Listed

F-184, Liquid Alkaline Foam Cleaner

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Diethylene glycol methyl ether 111-77-3	4.5	Not Listed	Not Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	18.25	1000 lb 454 kg	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	18.25	Listed

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:
Diethylene glycol methyl ether 111-77-3	4.5	Listed
SODIUM HYDROXIDE 1310-73-2	18.25	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:
Diethylene glycol methyl ether 111-77-3	4.5	Listed
SODIUM HYDROXIDE 1310-73-2	18.25	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	4.5	Listed
SODIUM HYDROXIDE 1310-73-2	18.25	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 ***