



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/18/2012
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REVISION NUMBER: 3
PREPARED BY: EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **FS HEAVY CLEAN**

PRODUCT CODE: 118510

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/B

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
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2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:	Causes vomiting, nausea, and diarrhea. May cause 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:	Mists or vapors may cause nose and respiratory irritation, headache, nausea, dizziness. Possible tissue damage.
EYE CONTACT:	May Cause Eye Burns. May cause permanent eye damage. May cause blindness.
CHRONIC EFFECTS:	Dermatitis. Possible respiratory damage from inhalation of dust or mist. 2-Butoxyethanol is readily absorbed through the skin; frequent or widespread contact may absorb harmful amounts. 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
SODIUM HYDROXIDE 1310-73-2	2 max.	Not applicable	2 mg/m ³
2-BUTOXYETHANOL 111-76-2	4	20 ppm	240 mg/m ³ 50 ppm
Sodium metasilicate 6834-92-0	5 max.	Not applicable	Not applicable
Sodium phosphate 7758-29-4	5 max.	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Get immediate 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.

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4. FIRST AID MEASURES

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.
EYES:	In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
NOTES TO PHYSICIAN:	None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): None (C): Not determined
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:	As for surrounding fire. Product will not burn.
FIRE FIGHTING PROCEDURES:	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 or soak up immediately. 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: Concentrated, alkaline liquid. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store only in original container and keep closed. Store in a cool, dry area.
OTHER PRECAUTIONS:	Store in a well ventilated area. Keep from freezing. Do not reuse container. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. 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:	Use in a well ventilated area.
RESPIRATORY PROTECTION:	Not normally required. If mist or vapors in air exceed exposure limit, use NIOSH approved organic vapor respirator.
PROTECTIVE GLOVES:	Rubber or plastic gloves recommended to minimize skin contact.
EYE PROTECTION:	Goggles. Safety Glasses.
OTHER PERSONAL PROTECTION EQUIPMENT:	Rubber boots. Appropriate protective clothing as needed to prevent skin contact. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear. Light yellow liquid. Mild glycol ether odor.
BOILING POINT (F): As water (C) Not determined
VAPOR PRESSURE: As water
VAPOR DENSITY (AIR=1): As water
SOLUBILITY IN WATER: Not determined
SPECIFIC GRAVITY: 1.085 +/- 0.005
VOC Content (%): NE
EVAPORATION RATE: As water
PH: 14 +/- 0.5

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: Hydrogen halides
INCOMPATIBILITY (MATERIALS TO AVOID): Do not mix with acidic materials. Neutralizes active ingredients. Avoid contact with aluminum, zinc, other soft metals or galvanized metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source.
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

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PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed	Listed	Listed	Not Listed
2-BUTOXYETHANOL 111-76-2	4	Listed	Listed	Listed	Not Listed
Sodium metasilicate 6834-92-0	5 max.	Listed	Listed	Listed	Not Listed
Sodium phosphate 7758-29-4	5 max.	Not Listed	Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
SODIUM HYDROXIDE 1310-73-2	2 max.	1000 lb 454 kg	Not Listed	Not Listed
2-BUTOXYETHANOL 111-76-2	4	Not Listed	Not Listed	Not Listed
Sodium metasilicate 6834-92-0	5 max.	Not Listed	Not Listed	Not Listed
Sodium phosphate 7758-29-4	5 max.	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
2-BUTOXYETHANOL 111-76-2	4	Listed
Sodium metasilicate 6834-92-0	5 max.	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:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
2-BUTOXYETHANOL 111-76-2	4	Listed
Sodium phosphate 7758-29-4	5 max.	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:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
2-BUTOXYETHANOL 111-76-2	4	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:
SODIUM HYDROXIDE 1310-73-2	2 max.	Listed
2-BUTOXYETHANOL 111-76-2	4	Listed
Sodium phosphate 7758-29-4	5 max.	Listed

16. OTHER INFORMATION

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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 *****