



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/19/2012
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REVISION NUMBER: 6
PREPARED BY: EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **BFW-32, Scale Inhibitor**

PRODUCT CODE: 100330

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
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2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:	Severe burns to mucous membranes of mouth, throat and digestive tract.
SKIN CONTACT:	Causes moderate skin irritation. Prolonged contact causes severe burns which may not be immediately painful or visible.
INHALATION:	Inhalation of spray mist may be irritating. Possible damage to mucous membranes of nose and throat.
EYE CONTACT:	Causes severe eye burns. May cause permanent eye damage. May cause blindness.
CHRONIC EFFECTS:	Dermatitis. Possible respiratory damage from inhalation of dust or mist. Long term overexposure to some glycol ethers by skin absorption or inhalation may cause kidney, liver, or blood effects based on animal testing.
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	6 max.	Not applicable	2 mg/m ³
Sodium polymetaphosphate 10124-56-8	5 - 10	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.
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.

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4. FIRST AID MEASURES

NOTES TO PHYSICIAN: None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

(F): None (C): None

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 appropriate for surrounding fire-product is mostly water and will not burn.

FIRE FIGHTING PROCEDURES:

Corrosive material. Avoid exposure to mist and splashes. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS:

Flush 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 indoors. Store only in original container and keep closed. Store in a cool, dry area.

Store in a well ventilated area. Mix only with water.

OTHER PRECAUTIONS:

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:

None known.

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.

Rubber or plastic gloves recommended to minimize skin contact.

Goggles. Face shield.

PROTECTIVE GLOVES:
EYE PROTECTION:
OTHER PERSONAL PROTECTION
EQUIPMENT:

PVC boots. Rubber boots. Rubber apron. Plastic hard hat. 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.

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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: Clear. Dark brown liquid.
BOILING POINT (F): 212° F
VAPOR PRESSURE: 15.7 mm Hg @ 22.2° C
VAPOR DENSITY (AIR=1): 0.625
SOLUBILITY IN WATER: Not determined
SPECIFIC GRAVITY: 1.13 - 1.4
VOC Content (%): 0 (EPA Method 24)
EVAPORATION RATE: (BuAc = 1) : 1.26
PH: 13 - 14

10. STABILITY AND REACTIVITY

STABILITY DATA: STABLE
POLYMERIZATION: Will Not Occur.
HAZARDOUS DECOMPOSITION: Oxides of Carbon. Oxides of Nitrogen.
INCOMPATIBILITY (MATERIALS TO AVOID): Do not mix with acidic materials. Neutralizes active ingredients. May react violently with strong acids.
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:
SODIUM HYDROXIDE 1310-73-2	6 max.	Listed	Listed	Listed	Not Listed
Sodium polymetaphosphate 10124-56-8	5 - 10	Listed	Listed	Listed	Not Listed

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PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
SODIUM HYDROXIDE 1310-73-2	6 max.	1000 lb 454 kg	Not Listed	Not Listed
Sodium polymetaphosphate 10124-56-8	5 - 10	2270 kg 5000 lb	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	6 max.	Listed
Sodium polymetaphosphate 10124-56-8	5 - 10	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	6 max.	Listed
Sodium polymetaphosphate 10124-56-8	5 - 10	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	6 max.	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	6 max.	Listed
Sodium polymetaphosphate 10124-56-8	5 - 10	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 ***