



MATERIAL SAFETY DATA SHEET

REVISION DATE: 04/19/2012

REVISION NUMBER:

4

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PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **BFW-3200S, Boiler Water Treatment**

PRODUCT CODE: 119159

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

Health: 2/2

Fire: 0/0

Reactivity: 0/0

Special/Protective Equipment: None/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: Causes burns of the mouth, throat and stomach. May cause tissue damage.
SKIN CONTACT: Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION: Causes irritation of the mouth,nose,and throat.
EYE CONTACT: Causes eye burns. May cause permanent eye damage.
CHRONIC EFFECTS: High dose animal studies indicate reproductive effects with Boron compounds. Sodium Nitrite is tumorigenic and demonstrates reproductive effects in animal studies and is mutagenic in bacterial and mammalian 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 NITRITE 7632-00-0	50 - 60	Not applicable	Not applicable
SODIUM HYDROXIDE 1310-73-2	1 - 10	Not applicable	2 mg/m ³
Sodium Tetraborate 1303-96-4	10 - 20	2 mg/m ³	Not applicable
Hydroxyphosphonoacetic acid 23783-26-8	1 - 10	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: Drink several glasses of water or milk. DO NOT INDUCE VOMITING. Get immediate medical attention.
SKIN: Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention.

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): Not determined (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:	Carbon Dioxide, Dry Chemicals, Foam.
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:	Pick up with absorbant material. Flush with water.
LARGE SPILLS:	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

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:	Avoid contact with skin and eyes. Keep container closed when not in use. Store in a cool, dry area.
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:	If product is used in a manner which creates vapor or mist above recommended exposure limits, a NIOSH/MSHA approved organic respirator may be needed in the absence of proper environmental controls.
PROTECTIVE GLOVES:	Neoprene. Rubber gloves.
EYE PROTECTION:	Face shield. Goggles.
OTHER PERSONAL PROTECTION EQUIPMENT:	Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible.
VENTILATION:	General mechanical or local exhaust as needed to maintain exposure below TLV or PEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Tan. Brown. Solid. Characteristic odor.	
BOILING POINT (F):	Not applicable	(C) Not determined
VAPOR PRESSURE:	Not determined	
VAPOR DENSITY (AIR=1):	Not determined	
SOLUBILITY IN WATER:	Complete	
SPECIFIC GRAVITY:	Not applicable	
VOC Content (%):	Not determined	
EVAPORATION RATE:	Not determined	
PH:	(1% solution) 12	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Oxides of Carbon. Oxides of Nitrogen. Oxides of Phosphorus.
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong acids and oxidizers. Magnesium Aluminum. Zinc Reducing agents.
CONDITIONS/HAZARDS TO AVOID:	None known.

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 NITRITE 7632-00-0	50 - 60	Listed	Listed	Listed	Not Listed
SODIUM HYDROXIDE 1310-73-2	1 - 10	Listed	Listed	Listed	Not Listed
Sodium Tetraborate 1303-96-4	10 - 20	Listed	Not Listed	Listed	Not Listed
Hydroxyphosphonoacetic acid 23783-26-8	1 - 10	Listed	Not Listed	Listed	Not Listed

BFW-3200S, Boiler Water Treatment

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
SODIUM NITRITE 7632-00-0	50 - 60	100 lb 45.4 kg	Not Listed	= 1.0 % de minimis concentration
SODIUM HYDROXIDE 1310-73-2	1 - 10	1000 lb 454 kg	Not Listed	Not Listed
Sodium Tetraborate 1303-96-4	10 - 20	Not Listed	Not Listed	Not Listed
Hydroxyphosphonoacetic acid 23783-26-8	1 - 10	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
SODIUM HYDROXIDE 1310-73-2	1 - 10	Listed
Sodium Tetraborate 1303-96-4	10 - 20	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 NITRITE 7632-00-0	50 - 60	Listed
SODIUM HYDROXIDE 1310-73-2	1 - 10	Listed
Sodium Tetraborate 1303-96-4	10 - 20	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 NITRITE 7632-00-0	50 - 60	Listed
SODIUM HYDROXIDE 1310-73-2	1 - 10	Listed
Sodium Tetraborate 1303-96-4	10 - 20	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 NITRITE 7632-00-0	50 - 60	Listed
SODIUM HYDROXIDE 1310-73-2	1 - 10	Listed
Sodium Tetraborate 1303-96-4	10 - 20	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 ***