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Metropolis, IL 62960

Date Signed: 3-1-04

Transportation: Chemtrec

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Emergency: 1-800-424-9300

**MATERIAL SAFETY DATA SHEET**

**I. IDENTIFICATION**

PRODUCT NAME: Boiler Guard  
CHEMICAL NAME: Alkali Water Conditioner  
CAS NUMBER: MIXTURE  
EMERGENCY TELEPHONE NUMBER: (618) 524-9394

**II. COMPONENTS AND HAZARD INFORMATION**

HAZARDOUS COMPONENT	CAS NO. OF COMPONENT	TLV OF COMPONENT	OSHA PEL	APPROXIMATE CONCENTRATION
Sodium Hydroxide	1310-73-2	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	4.0%
Sodium Sulfite	7758-83-7	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	2.0%

This product contains Sodium Hydroxide, which is subject to the reporting requirements of SARA III.

D.O.T. Hazard Classification: Corrosive Liquid NOS, (Contains Sodium Hydroxide), 8, UN 1760, PG III

Hazardous Materials Identification System (HMIS)

Health 3	Flammability 0	Reactivity 1	BASIS Recommended by Laidlaw BASIS Calculated TLV REF ACGIH
TLV for Total Product 1100 ppm			

**III. PHYSICAL DATA**

Boiling Point 210°F Vapor Density Not determined.  
Vapor Pressure Not determined. Percent Volatiles 80%  
Specific Gravity 1.1370 Evaporation Rate Not determined.

**IV. FIRE AND EXPLOSION DATA**

Flash Point (°F TCC) Not applicable.  
Extinguishing Media Not applicable.

Special Firefighting Procedures As appropriate for surrounding fire.

Unusual Fire & Explosion Hazards None.

National Fire Protection Association (NFPA) - Hazard Identification

Health 3	Flammability 0	Reactivity 1	BASIS Recommended by Laidlaw
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**V. HEALTH HAZARD DATA**

Effects of Overexposure:

Eyes: Can cause severe burns to eyes.

Skin: Can cause severe burns.

Breathing: May cause damage to the upper respiratory tract.

Swallowing: Can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

**BOILER GUARD**

First Aid Procedures:

- Swallowing: Do not induce vomiting. Give large quantity of water. Give one ounce of vinegar with water. Seek medical attention immediately.
- Skin: Wash with soap and water, followed by rinsing with vinegar or dilute acetic acid (3%).
- Inhalation: Remove to fresh air; get medical attention.
- Eyes: Flush with water for at least 15 minutes, holding eyelids apart to ensure entire eye surface is flushed.

Health studies have shown that health risks vary from person to person. As a precaution exposure to liquids, vapors, misty fumes or dust should be minimized.

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**VI. REACTIVITY DATA**

- Hazardous Polymerization: None.
- Stability: Stable under normal conditions.
- Incompatibility: Do not mix with strong acids without dilution and agitation.
- Hazardous Decomposition Products: Not applicable.

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**VII. SPILL OR LEAK PROCEDURES**

Steps to be taken in case material is released or spilled:  
Avoid body contact. Neutralize with acetic acid and then dilute well with water. Check local, state and federal regulations before disposal. May be flushed into sewer after neutralization.

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**VIII. PROTECTION AND PRECAUTIONS**

- Respiratory Protection: Not necessary.
- Ventilation: Provide sufficient ventilation to maintain exposure below TLV.
- Protective Gloves: Rubber or PVC gloves should be worn to minimize skin contact.
- Eye Protection: Chemical splash goggles should be worn.
- Other Protective Equipment: Safety shower and eyewash stations are advisable.

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**IX. PRECAUTIONS OR OTHER COMMENTS**

Precautions to be taken in handling and storing: Maintain good housekeeping. Avoid contact with eyes. Wash thoroughly after handling. Use with adequate ventilation.  
The information and recommendations accumulated herein are to the best of Laidlaw's knowledge and belief, accurate and reliable as of the date issued. Laidlaw does not warrant or guarantee their accuracy or reliability, and shall not be liable for any loss or damage arising out of the use thereof.  
HMIS and NFPA recommended ratings are based upon the criteria supplied by the developers of these rating systems together with Laidlaw's interpretation of the available data.