

# MATERIAL SAFETY DATA SHEET

## Section 1

## General Information

**Trade Name & Synonyms:** BT-7105

**Revision Date:** January 1, 2003

**Chemical Name & Synonyms:** Boiler Water Treatment Blend

**Chemical Family:** Corrosion Inhibitor

**Formula:** Aqueous Mixture

**Manufacturer:**

M. I. S. of America, Inc.  
4391 Walden Avenue  
Lancaster, NY 14086  
800-688-3758

**Emergency Contact:** CHEM-TEL-(800) 255-3924

## Section 2

## Ingredients

### Principal Hazardous Components

Sodium Nitrite  
Sodium Borate  
Sodium Polyacrylate  
Potassium Hydroxide  
N,N-diethylethanolamine

### Threshold Limit Value (Units)

N.A.  
N.A.  
N.A.  
N.A.  
10 ppm (skin) by ACGIH & OSHA

\* This product does not contain a chemical listed in Section 313 of SARA Title III above de minimus concentration.

## Section 3

## Physical Data

**Boiling Point (°F):** Above 212°F

**Vapor Pressure (mm Hg.):** N.A.

**Vapor Density (Air = 1):** N.A.

**Solubility in Water:** Complete

**Appearance & Odor:** Clear, red liquid with slight ammonia odor.

**Specific Gravity (H<sub>2</sub>O = 1):** 1.092 - 1.112

**Percent Volatile By Weight (%):** 83

**Evaporation Rate (\_\_\_ = 1):** Unknown

**pH:** 11 - 11.5

## Section 4

## Fire & Explosion Hazard Data

**Flash Point (Test Method):** None

**Auto Ignition Temperature:** N.A.

**Flammable Limits:** N.A.

**LEL:** N.A.

**UEL:** N.A.

**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

**Unusual Fire & Explosion Hazards:** Ignition temperature of paper and wood is lowered when impregnated with Sodium Nitrite and fire is difficult to extinguish.

**Section 5****Health Hazard Data**

**Threshold Limit Value:** N.A.

**Carcinogenicity:**

**NTP:** No

**IARC:** No

**OSHA:** No

**Primary Route (s) of Entry:** Dermal, ingestion.

**Symptoms of Exposure:** Harmful if swallowed. Can cause irritation to skin and eyes. Ingestion causes low blood pressure, rapid heart beat and tissue anoxia. Excess ingestion causes nausea, vomiting and diarrhea.

**Emergency First Aid:**

**Eyes:** Flush immediately with water for at least 15 minutes. Call a physician.

**Skin:** Wash thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing.

**Ingestion:** If swallowed, DO NOT induce vomiting. Give several glasses of water to dilute. Get medical attention immediately.

**Section 6****Reactivity Data**

**Stability:** Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Exposure to high temperatures or open flame.

**Incompatibility (Materials to Avoid):** Ammonium salts, cyanogen compounds, strong reducing agents.

**Hazardous Polymerization:** Will not occur under ordinary conditions of use and storage.

**Conditions to Avoid:** None known.

**Hazardous Decomposition Products:** Nitrogen evolves at temperatures above 700°F.

**Section 7****Environmental Protection Procedures**

**Spill Response:** Wear the appropriate protective equipment. For small spills, dilute with large quantities of water and flush to sewer. For larger spills, absorb and dispose of in an appropriate manner.

**Waste Disposal Method:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult federal, state and local regulatory agencies to ascertain proper disposal procedures.

**Section 8****Special Protection Information**

**Eye Protection:** Chemical goggles or face shield.

**Skin Protection:** Rubber gloves and rubber safety shoes.

**Respiratory Protection (Specific Type):** No special protection needed.

**Ventilation Recommended:** Normal.

**Other Protection:** Eye wash fountain and safety shower in work area recommended.

**Section 9****Special Precautions**

**Hygienic Practices in Handling & Storage:** Store away from combustible materials in a cool place. Always wash thoroughly after handling any chemical.

**Other Precautions:** Recommended shelf life: One year. Keep container closed when not in use.

**Shipping Class Information:** Corrosive Liquid, n.o.s.(contains Potassium Hydroxide),8,UN 1760,PG III