

# MATERIAL SAFETY DATA SHEET

Complies with OSHA's 29 CFR  
1910.1200 and State Hazard  
Communication Standards.

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Emergency Response Number:  
1-800-255-3924

## SECTION 1.

PRODUCT IDENTITY : Formula 1510, Steam Boiler Treatment

DATE PREPARED : November 2000  
UPDATED: January 2002

NFPA/HMIS HAZARD CODES (MINIMAL=0; SLIGHT=1; MODERATE=2; SERIOUS=3; SEVERE=4)  
Health: 3/3 Fire: 0/0 Reactivity: 1/1 Special: J

DOT SHIP CLASS: CORROSIVE LIQUID, N.O.S. - CONTAINS SODIUM NITRITE  
R.Q. P.G. III

Emergency Response Guide Number: 60

## SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA/PEL	ACGIH/TLV	% BY WT.
Sodium Nitrite	7632-00-0	None Est.**	None Est.**	12-17%
Sodium Hydroxide 50%	1310-73-2	2 mg/M3 (ceiling)	2 mg/M3 (ceiling)	<1%

Remainder of the components comprise of non-hazardous proprietary information

\*EPA Hazardous Substance (40 CFR 116).

\*\*Supplier recommends 5 mg/M3 as respirable particulate.

## SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT:	212 °F	SPECIFIC GRAVITY:	1.05-1.15
VAPOR PRESSURE:	as water	PERCENT VOLATILE:	80 (water)
VAPOR DENSITY:	as water	EVAPORATION RATE:	as water
SOLUBILITY IN WATER:	complete	pH:	9.0-11.0

APPEARANCE/ODOR : Lt. Yellow liquid, slight odor.

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Product will not burn.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

## SECTION 5: REACTIVITY DATA

STABILITY: Stable  
CONDITIONS TO AVOID: None  
INCOMPATIBILITY: Do not mix with acids, will neutralize active ingredients.  
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition, as in fire, may release oxides of carbon or nitrogen if evaporated to dryness.

**SECTION 6: HEALTH HAZARD DATA****ROUTES OF ENTRY AND SYMPTOMS OF EXPOSURE:****ACUTE EFFECTS:**

Eyes: May cause severe burns; possible permanent eye damage, even blindness.  
 Skin: Irritant; prolonged contact may cause severe burns which may not be immediately painful or visible.  
 Ingestion: Severe burns to mucous membranes of mouth, throat and digestive tract. Sodium Nitrite may cause temporary yellowing of skin with prolonged contact; moderate Sodium Nitrite oral LD50 (rat) 85 mg/kg.  
 Not likely route.

**CHRONIC EFFECTS:** None in normal use. Nitrites can react with secondary amines to form carcinogenic nitrosamines.

**CARCINOGENS:** None listed under OSHA, IARC or NTP.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing dermatitis.

**EMERGENCY AND FIRST AID PROCEDURES:**

Eyes: Flush with water for 15 minutes. Get medical attention.  
 Skin: Wash thoroughly with soap and water. Remove contaminated clothing.  
 Ingestion: DO NOT INDUCE VOMITING. Give water or milk to dilute. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE****SPILL OR LEAK PROCEDURES:**

**Small Spills:** Flush away with large amounts of water.  
**Large Spills:** Dike to contain spill. Reclaim as much as possible. Absorb remainder with inert materials. Flush residue away with water. Prevent wash water from entering natural waterways or public water supplies.

**Waste Disposal Method:** Dispose of in accordance with Federal, State, and local regulations.

Product if disposed of as received is a RCRA characteristic corrosive waste due to its pH.

**Handling and Storage:** Read label before using. Do not contaminate food or feed by use or storage of this product.

Keep from freezing.

**Other Precautions:** Avoid skin and eye contact. Keep out of reach of children.

Read and follow label instructions.

**SECTION 8: CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Use NIOSH approved dust or mist respirator if mist in air causes irritation or exceeds exposure limits.

**VENTILATION:** Normally none required. Mechanical exhaust as needed if mist in air.

**GLOVES:** Rubber or neoprene

**EYE PROTECTION:** Splash proof goggles or chemical safety glasses.

**OTHER PROTECTIVE EQUIPMENT:** As needed to prevent prolonged or repeated skin contact.

**WORK/HYGENIC PRACTICES:** Wash thoroughly after handling. Launder contaminated clothing before reuse.

**SECTION 9: SARA TITLE III REGULATORY INGREDIENT INFORMATION**

## 1. Title III Section 302/304 Extremely Hazardous Substance List and/or CERCLA Hazardous Substance List.

<b>Component:</b>	Sodium Nitrite	Sodium Hydroxide 50%
<b>CAS #:</b>	7632-00-0	1310-73-2
<b>Percent:</b>	12-17%	<1%
<b>T.P.Q.:</b>	100 lbs.	1,000 lbs.
<b>R.Q.:</b>	100 lbs.	1,000 lbs.

## 2. Title III Section 313 Toxic Chemicals Annual Release Reporting Requirements (SARA Section 313 Toxic Chemicals List).

<b>Component:</b>	Sodium Nitrite	Sodium Hydroxide 50%
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