



# Safety Data Sheet

## CT - BOILER HW ( Hard Water)

### Section 1 - Chemical Product and Company Identification

Supplier's Information:

**Superco Specialty Products**

25041 Anza Drive  
Valencia, CA 91355  
(661) 775-8877

**Product Name:** CT 0 Boiler HW

**Product Code:** 5190

**Date of Issue:** January 4, 2016

**Use Dilution Information:** Depending on use  
2 to 4 oz of product, Up to 1 Gallon per Gallon Water

### Section 2 - Hazard Identification

**Product as a Concentrate**

**GHS Overview:**

GHS Classification: Serious Eye Damage (Category 1)

Skin Corrosion (Category 1C)

Pictogram:



Signal Word: Danger

Hazard Statements: H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

**Precautionary Statements**

P264: Wash hands thoroughly after handling.

P 273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention/advice.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to comply with local, state and federal regulations.

### **Section 3 - Composition / Information on Ingredients**

#### **Product as a Concentrate**

<b>Hazardous Ingredients</b>	<b>Concentration Range</b>	<b>CAS Number</b>
Sodium Nitrite	16 - 25 %	7632-00-0
Benzotriazole	2 - 4 %	95-14-7

### **Section 4 - First Aid Procedures**

#### **Product as a Concentrate:**

**If Inhaled:** If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Flush skin with plenty of water for at least fifteen minutes.

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses if able to do so.

**If Ingested:** Do NOT induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Information

### Product as a Concentrate:

**Conditions of Flammability:** This product is not flammable. Use extinguishing agent suitable for the type of surrounding fire.

**Suitable Fire Extinguishing Media:** Use water mist, foam, dry chemical or carbon dioxide.

**Hazardous Thermal Decomposition Products:** Hazardous decomposition products formed under fire conditions: Carbon oxides. By heating and fire, toxic and explosive vapors/gases may be formed. Contact with metals causes formation of flammable and explosive gases such as Hydrogen Gas.

**Specific Fire - Fighting Methods:** Promptly isolate the scene by removing all persons from the area if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special Protective Equipment for Firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Spill Procedures

### Product as a Concentrate:

**Personal Precautions:** Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled material.

**Environmental Precautions:** Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

**Methods for Cleaning Up:** Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

## Section 7 - Handling and Storage

### Product as a Concentrate

**Handling:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store between the following temperatures: -25°C and 40°C.

## Section 8 - Exposure Controls / Personal Protection

### Control Parameters:

#### Ingredients Name

Sodium Nitrite

Benzotriazole

#### Exposure Limits

**ACGIH TLV:** 10 mg/m<sup>3</sup>

**NIOSH TWA:** 15 mg/m<sup>3</sup>

**ACGIH TLV:** Not Established

**NIOSH TWA:** Not Established

**Appropriate Engineering Controls:** Use only in adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

## Section 8 - Exposure Controls / Personal Protection

### Exposure Guidelines

- Eye Protection:** Wear tightly fitting safety goggles or safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.
- Hand Protection:** Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use. Protect skin by wearing pants, close toe shoes and long sleeves. The type of pro
- Skin Protection:** Protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers should be located in the work area where skin contact can occur.
- Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. For oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

## Section 9 - Physical and Chemical Properties

### Product as a Concentrate:

- Physical State:** Liquid
- Color:** Clear Pink
- Odor:** Bland
- pH:** 12.5
- Flash Point:** None
- Explosion Limits:** None
- Flammability:** Will not burn or support combustion
- Melting Point:** None
- Boiling Point:** >100°C
- Evaporation Rate:** Not Determined
- Vapor Pressure:** Not Determined
- Vapor Density:** Not Determined
- Specific Gravity:** 1.31 +/- 0.02 (?)
- Solubility:** Completely soluble
- Viscosity:** Same as water
- Autoignition Temp:** None

## Section 10 - Stability and Reactivity

### Product as a Concentrate

- Stability:** Stable under recommended storage condition
- Possibility of Hazardous Reactions:** To prevent oxidation prevent long term exposure to air. If storing in a partially filled container fill headspace with an inert gas such as nitrogen.
- Conditions to Avoid:** Heat and light
- Materials to Avoid:** Extremely reactive or incompatible materials such as bases, or metals. Reactive or incompatible with the following materials: Oxidizers. Slightly reactive or incompatible with the following materials: Metals.
- Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. Carbon oxides.

## Section 11 - Toxicological Information

**Routes of Exposure: Skin Contact, Eye Contact, Inhalation, Ingestion.**

### Product as a Concentrate

#### Acute Effects:

**Skin Contact:** Fatal in contact iwth skin, Causes severe skin burns. Causes permanent skin damage (scarring)

**Eye Contact:** Causes severe eye burns. May cause blindness.

**Inhalation:** Fatal if inhaled. Causes respiratory tract burns

**Ingestion:** Fatal if swallowed. Causes digective tract burns.

### Chronic Effects

This product is not classified as a carcinogen by OSHA, IARC, ACGIH, or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This produt does not contain known reproductive or developmental toxins. Prolonged or repeated exposues can cause drying or dermatitis of skin improper storage and handling may lead to the formation a possible skin sensitizer.

## Section 12 - Ecological Information

### Product as a Concentrate

#### Aquatic and Terrestrial Toxicity

<u>Product / Ingredient Name</u>	<u>Results</u>	<u>Species</u>	<u>Exposure</u>
Sodioum Nitrite	Acute LC50 -7.5 mg/l	Mesquitoe Fish	96 Hours
	Acute LC50 - 186 mg/kg	Rat	24 Hours
Benzotriazole	Acute LC50 - Not Determined		
	Acute LC50 - 560 mg/kg	Rat	24 hours

## Section 13 - Disposal Methods & Considerations

### Product as a Concentrate

**Disposal Methods:** Burn in chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated Packaging:** Dispose of as unused product.

**RCRA Classification:** None

## Section 14 - Transportation Information

### DOT (U.S. Department of Transportation)

**UN Number:** UN1500

**DOT Classification:** Oxidizer

**DOT Proper Shipping Name:** Sodium Nitrite Solution

**Shipping Class:** 5.1

**Packaging Group:** III

### IMO / IMDG

**UN Number:** UN1500

**IMO / IMDG Classification:** Oxidizer

**IMO / IMDG Proper Shipping Name:** Sodium Nitrite Solution

**Shipping Class:** 5.1

**Packaging Group:** III

## Section 15 - Regulatory Information

### Product as a Concentrate

#### U.S. Federal Regulations

**CERCLA Hazardous Substance List (40 CFR 302.4):** All components are listed.

**TSCA 8(b) Inventory:** All components are listed or exempt.

**SARA 302/304/311/312 Extremely Hazardous Substances:** Hydrofluoric Acid and Sulfuric Acid

**SARA 313 Product Names CAS Number Concentration:**

None

**California Prop. 65**

**Proposition 65: California Safe Drinking Water and Toxic Information Act of 1986**  
None

**SARA Title III (Section 313)**  
None

**Section 16 - Other Information**

Hazardous Material Information System (U.S.A.)

**NFPA RATING**

- 0 = Non-Hazardous
- 1 = Slight Hazard
- 2 = Hazardous
- 3 = Extreme Hazard
- 4 = Deadly



National Fire Protection Association (U.S.A.)

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>1</b>
<b>PERSONAL</b>	<b>H</b>

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Prepared By: SHC

**Note to Reader:**

This above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.