

SCIENTIFIC SOLUTIONS, INC.  
(602)789-7854

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: SCI-650-BT

COMMON NAME: Boiler Water Treatment Compound

SECTION 2. HAZARDOUS INGREDIENTS

Ingredient	CAS NO.	ACGIH TLV	Hazard
Sodium Hydroxide	1310-73-2	2mg/m3	Corrosive
(1-Hydroxyethylidene) diphosphonic acid	Not Established	Not Established	Corrosive
Phosphonobutane tri- carboxylic acid	37971-36-1	Not Established	Corrosive
Polyacrylic Copolymer	Not Established	Not Established	Corrosive

The remaining components comprise proprietary information.

SECTION 3. SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES

EYES: Chemical splash proof goggles or face shield.

RESPIRATORY: MSHA/NIOSH approved respirator where mists/vapors are generated.

GLOVES: Chemical resistant gloves.

OTHER: Apron or rubberized clothes, protective shoes.

VENTILATION

GENERAL MECHANICAL: Recommended where mists/vapors are expected.

HANDLING & STORAGE

Keep drums closed when not used. Avoid splashing on skin/eyes/mouth. Wash hands after handling. Avoid breathing fumes. Store at room temperature.

SECTION 4. EMERGENCY RESPONSE DATA

FIRE

EXTINGUISHING MEDIA: Not flammable; use extinguishing media appropriate for surrounding materials.

FIRST AID

EYES: Flush immediately with plenty of flowing water for 15 minutes. Get immediate medical attention. SKIN: Wash with plenty of flowing water for 15 minutes. Consult a physician if irritation persists. INGESTION: If conscious, give person large quantities of water. Do not induce vomiting. Call doctor. INHALATION: Move person to fresh air. TLV: Not established.

SPILLS / DISPOSAL

SPILLS: Absorb with dirt/sand/cloth/etc. and shovel into lidded container. Use gloves and protective clothing. Use self contained breathing apparatus if extreme heat is encountered. DISPOSAL METHOD: Dispose of in accordance with Federal, State and local regulations.

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**SECTION 5. PHYSICAL HAZARD DATA**  
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FLAMMABILITY: Non flammable

FLASHPOINT: Not tested

STABILITY: Stable

CONDITIONS TO AVOID: Heating undiluted chemical over 212°F and breathing fumes from heated solution.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: Will not occur.

MATERIAL TO AVOID: Strong acids, strong oxidizers.  
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**SECTION 6. HEALTH HAZARD DATA**  
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PRIMARY ROUTE OF EXPOSURE: Eyes, skin, inhalation.

EFFECTS OF OVEREXPOSURE: Corrosive to eyes and skin. Immediate health hazard. Corrosive to mucous membranes and other body tissues. No data available on human ingestion.

EMERGENCY TREATING: See above First Aid procedures. (Section 4)  
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**SECTION 7. PHYSICAL AND CHEMICAL PROPERTIES**  
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pH: 12+

ODOR: Slight caustic odor

SPECIFIC GRAVITY: 1.25-1.31

APPEARANCE: Clear yellow liquid  
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**SECTION 8. REGULATORY DATA**  
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DOT DESCRIPTION: Corrosive Liquids, NOS, (Sodium Hydroxide), 8, UN1760, III

**SARA TITLE III**

Section 302 Extremely Hazardous Substance List: No components listed

Section 311 Hazard Category: Immediate Health Hazard

Section 313 Toxic Chemicals List: No listed substances present above de minimus levels

CERCLA Hazardous Substance List: Sodium hydroxide, RQ=1000 lbs

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