



SECTION 1 - IDENTIFICATION

Table with 2 columns: Manufacturer information (Black Swan Mfg. Co., Chicago, IL) and For any Transportation or Medical Chemical Emergencies call: INFOTRAC (800) 535-5053 OR (352) 323-3500. Product Name: Liquid Boiler Cleaner. Recommended Use: To clean steam or hot water boilers.

SECTION 2 – HAZARD(S) IDENTIFICATION

Table with 4 columns: Labels (None), Signal Word (None), HMIS (HEALTH 0, FLAMMABILITY 0, REACTIVITY 0), NFPA (HEALTH HAZARD 0, FIRE HAZARD 0, REACTIVITY 0), GHS Classification (Health: Not Established, Environmental: Not Established, Physical: None), Hazardous Statements (H303, H315, H320), and Precautionary Statements (P102).

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Table with 5 columns: Chemicals, CAS#, EINECS#, REACH Pre-registration Number, and Approx %. Rows include BORAX, POTASSIUM HYDROXIDE, and SODIUM BENZOTHAIOLETHIOLATE.

SECTION 4 – FIRST-AID MEASURES

Table with 1 column: First-aid measures for Inhalation, Skin, Eyes, and Ingestion.

SECTION 5 – FIRE-FIGHTING MEASURES

Table with 1 column: Fire-fighting measures including Fire Hazard (None), Combustion Products (None), Extinguishing Media, Unsuitable Extinguishing Media, Protective Equipment, and Special Fire Fighting Procedures.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes.
Protective Equipment: None.
Emergency Procedures: None.
Environmental Precautions: Keep product out of sewers and waterways.
Methods for Cleaning Up: Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water.

SECTION 7 – HANDLING AND STORAGE

Handling

Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.

Storage

Keep container tightly closed in a dry, cool and well ventilated place. Keep from freezing. **Incompatible Materials:** Oxidizing agents, acids, strong bases acids and bases.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

<u>Hazardous Chemicals</u>	<u>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
BORAX	Inhalable fraction: 2 mg/m ³	Inhalable fraction: 6 mg/m ³	N/A
POTASSIUM HYDROXIDE	Inhalable fraction: 2 mg/m ³	N/A	N/A
SODIUM BENZOTHAIOLETHIOLATE	N/A	N/A	N/A

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Showers. Ventilated systems.
Ventilation: Local exhaust adequate.
Personal Protective Equipment – Respiratory: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. **Skin:** None. **Eyes:** Safety glasses.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Blue	Flash Point: Not Established	Vapor Pressure: 0.00001 hPa estimated
Odor: Odorless	Specific Gravity: 1.05	Flammability: Not Established
pH: Not Established	Solubility (H₂O): Insoluble	Flammability Limits: LEL – Not Established UEL – Not Established
Melting Point: 167° F	Evaporation Rate: < 1 BuAc	
Freezing Point: Not Established	Vapor Density: 16	
Boiling Point: 212°F	VOC: 0 g/l	

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.
Hazardous polymerization: Will not occur.
Conditions to avoid: Exposure to air or moisture over prolonged periods.
Incompatible materials: Strong oxidizing agents, acids, strong bases acids and bases.
Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity

<u>Hazardous Chemicals</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
BORAX	Oral: 5330 mg/kg (guinea pig) Oral: 2000 mg/kg (mouse) Oral: 396 mg/kg (rat) Dermal: 2842 mg/kg (rat) Dermal: >10000 mg/kg (rabbit)	Inhalation: <0.002 mg/l, 4 hours (rat)
POTASSIUM HYDROXIDE	Oral: 273 mg/kg (rat)	N/A
SODIUM BENZOTHAIOLETHIOLATE	N/A	N/A

Likely Routes of Exposure: Skin Contact and Eye Contact.
Symptoms and Effect – Inhalation: None. **Skin Contact:** May cause slight skin irritation. **Eye Contact:** May cause irritation. **Ingestion:** None.
Long-Term Effect: None.
Pre-Existing Conditions: None.

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SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistence & Degradability: None known.

Bioaccumulative Potential: None known.

Mobility in soil: In normal use, emission of Volatile Organic Compounds (VOC's) to the air takes place, typically at a rate of 0 g/l.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T. (U.S.): Not Regulated.

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: None.

Risk Phrases: None.

Safety Phrases: S2-Keep out of reach of children.

SECTION 16 – OTHER INFORMATION

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Black Swan Mfg. Co. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on the sheets.

DATE: 01/01/2021