



SECTION 1 - IDENTIFICATION

Manufacturer:

Black Swan Mfg. Co.
4540 W. Thomas St.
Chicago, IL 60651-3318
Tel.: 800-252-5796
Fax: 773-227-3705
Web Site : www.blackswanmfg.com
E-mail : info@blackswanmfg.com

For any Transportation or Medical Chemical Emergencies call:

INFOTRAC(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Product Name: Liquid Boiler Cleaner**Recommended Use:** To clean steam or hot water boilers.

SECTION 2 – HAZARD(S) IDENTIFICATION

Labels

None

Signal Word

None

HMIS

HEALTH

0

FLAMMABILITY

0

REACTIVITY

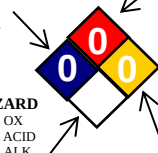
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NFPA**HEALTH HAZARD**

4 – Deadly
3 – Extreme Danger
2 – Hazardous
1 – Slight Hazardous
0 – Normal Material

SPECIFIC HAZARD

Oxidizer
Acid
Alkali
Corrosive
Use NO WATER
Radioactive

**FIRE HAZARD**

Flash Points
4 – Below 73°F
3 – Below 100°F
2 – Above 100°F, Not exceeding 200°F
1 – Above 200°F
0 – Will not burn

REACTIVITY

4 – May detonate
3 – Shock and heat may detonate
2 – Violent chemical change
1 – Unstable if heated
0 – Stable

GHS Classification**Health**

Acute Toxicity: Not Established

Skin Irritation: Cat. 1B

Eye Irritation: Cat. 1

Skin Sensitization: NO

Environmental

Acute Aquatic Toxicity: Not Established

Chronic Aquatic Toxicity: Not Established

Physical

None

Hazardous Statements

H303: May be harmful if swallowed
H315: Causes skin irritation
H320: Causes eye irritation

Precautionary Statements

P102: Keep out of reach of children

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemicals**CAS#****EINECS#****REACH****Pre-registration Number****Approx %**

BORAX	1303-96-4	N/A	N/A	5-10%
POTASSIUM HYDROXIDE	1310-58-3	N/A	N/A	3-5%
SODIUM BENZOTHAIOLETHIOLATE	2492-26-4	N/A	N/A	3-5 %

*Unlisted ingredients are not classified as hazardous according to OSHA 1910.1200.

SECTION 4 – FIRST-AID MEASURES

Inhalation: Remove to fresh air. If experiencing respiratory symptoms get medical attention.**Skin:** Wash with soap and water. If skin irritation persists get medical attention.**Eyes:** Flush with water for 15 minutes. Remove contact lenses if present and easy to do so, continue rinsing. If eye irritation persists get medical attention.**Ingestion:** Rinse mouth with water. Do not induce vomiting. Get immediate medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: None.**Combustion Products:** None.**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Water Fog, Foam.**Unsuitable Extinguishing Media:** None known.**Protective Equipment:** Wear a self-contained breathing apparatus & protective clothing.**Special Fire Fighting Procedures:** None.

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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

Hazardous Chemicals

ACGIH-TLV

ACGIH-STEL

OSHA-PEL

BORAX

Inhalable fraction: 2 mg/m³

Inhalable fraction: 6 mg/m³

N/A

POTASSIUM HYDROXIDE

Inhalable fraction: 2 mg/m³

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

Melting Point:

167° F

Evaporation Rate:

< 1 BuAc

UEL – Not Established

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

Hazardous Chemicals

LD₅₀

LC₅₀

BORAX

Oral: 5330 mg/kg (guinea pig)

Inhalation: <0.002 mg/l, 4 hours (rat)

Oral: 2000 mg/kg (mouse)

Oral: 396 mg/kg (rat)

Dermal: 2842 mg/kg (rat)

Dermal: >10000 mg/kg (rabbit)

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: 01/01/2025