



## Product Safety Data Sheet

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### Section 1: Identification

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**Product Name:** **BLS-401**

**Function:** Boiler system antiscalant/dispersant

**Manufacturer:** Chemco Products, Inc., 1349 Grand Oaks Drive, Howell, MI 48843

**Phone Number:** 517-546-7800

**Transport Emergency Phone Number:** Chemtrec, 800-424-9300

**SDS Issue Date:** August 6, 2015

**Revision Number:**

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### Section 2: Hazard Identification

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**Hazard Classifications:** Irritant

**Signal Word:** WARNING!

- CAUSES SERIOUS EYE IRRITATION
- CAUSES SKIN IRRITATION

**Precautionary Statements:**

- Contains potassium hydroxide; may cause severe eye irritation.
- Wear appropriate eye protection.
- In case of skin contact, immediately flush contact area with a large amount of water.

**Non-Classified Hazards:** None

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### Section 3: Hazardous Ingredients

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<u>Ingredient Name</u>	<u>CAS Number</u>	<u>net % by weight</u>
Potassium hydroxide	1310-58-3	< 0.5

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## **Section 4: First Aid Procedures**

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- Skin Contact: Prolonged contact with skin may produce irritation. Remove contaminated clothing and flush contact area with water for 15 minutes. Seek medical attention if irritation persists.
- Eye Contact: Contact with eyes may cause severe irritation. Immediately flush eyes with water or ophthalmic rinse solution; continue flushing with water for 15 minutes to remove any residual material. Seek medical attention if irritation persists.
- Inhalation: Inhalation of product mists may cause respiratory irritation. Move victim to fresh air. If breathing is difficult, provide oxygen. If irritation persists, seek medical attention.
- Ingestion: Product is not expected to have significant toxicity by ingestion. If victim is conscious, provide water or milk to dilute ingested material. Do not induce vomiting unless instructed by a physician or Poison Control Center. Get immediate medical attention.

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## **Section 5: Fire-Fighting Measures**

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- Special Hazards: Thermal decomposition may produce hazardous CO and PO<sub>x</sub> fumes. Wear self-contained breathing apparatus.
- Extinguishing Media: For small fires, use A-B-C fire extinguisher. Large fires may be extinguished with any media suitable for the surrounding fire.

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## **Section 6: Accidental Release Measures**

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- First Responders should wear all recommended personal protective equipment outlined in Section 8. For large spill cleanup, personnel should wear a chemical-resistant splash suit or coveralls.
- Prevent spills from contaminating natural waterways or municipal sewer systems. Use chemical-resistant spill control socks/booms to minimize spread of spill.
- Reclaim as much spilled material as possible and return to original container. Small quantities of spill residue may be neutralized and flushed with water to internal wastewater treatment system.

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## **Section 7: Storage and Handling**

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- Store at room temperature. Keep container closed when not in use.
- Use containment devices to prevent uncontrolled spills.
- Do not eat, drink, or smoke while handling product; wash thoroughly with soap after handling.

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## Section 8: Personal Protection and Exposure Controls

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### Protective Equipment Requirements:

1. Safety glasses
2. Chemical-resistant gloves

### Airborne Exposure Limits

<u>Hazardous Ingredient</u>	<u>Exposure Limit</u>
Potassium hydroxide	2 mg/m <sup>3</sup> (ceiling)

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## Section 9: Physical and Chemical Properties (n.a. = not available)

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- Appearance: Clear dark amber liquid
- Odor: None
- pH, neat: 11.0
- Specific Gravity: 1.03
- Water solubility: Complete
- Freezing/Boiling points, degrees F: 32 / 212
- Viscosity: < 100 cps
- Flash point, degrees F: non-flammable
- Upper/Lower explosive limits: n.a.
- Auto-ignition temperature: n.a.
- Decomposition temperature: n.a.
- Vapor pressure/density: n.a.
- Evaporation rate: n.a.
- Octanol/Water partition coefficient: n.a.

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## Section 10: Stability and Reactivity

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Chemical Stability: This product is stable under normal storage and use conditions. Keep container closed and prevent exposure to temperature extremes.

Reactivity: This product may react with strong acids or oxidizing materials.

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## Section 11: Toxicological Information

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Likely route(s) of exposure: eye/skin contact (irritation)

\*Toxicity values are estimated using aggregate ingredient toxicities.

- Acute oral toxicity: LD<sub>50</sub>, rat = > 5,000 mg/kg
- Acute dermal toxicity: LD<sub>50</sub>, rabbit = > 5,000 mg/kg

Carcinogenicity/Teratogenicity: Does not contain known or suspected carcinogens.

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## Section 12: Ecological Information

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a. Aquatic Toxicity

Freshwater fish, 96 hr LC<sub>50</sub>, = > 100 mg/l (estimated)

Daphnia magna, 48 hr EC<sub>50</sub>, = > 100 mg/l (estimated)

Product is not expected to exhibit significant toxicity to aquatic organisms. Prevent spills from entering natural waterways and sewer systems.

b. Biodegradability

No specific biodegradability data have been determined for this product.

c. Environmental Fate

No data regarding environmental fate are available.

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## Section 13: Disposal Considerations

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Personnel responding to spills of this product should wear safety glasses, chemical-resistant coveralls, gloves, and boots.

Product should be used up, if possible, or stored in sealed plastic containers for proper disposal at a licensed waste facility.

Empty containers should be triple-rinsed with water prior to recycling or disposal.

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## Section 14: Transport Information

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**FOR TRANSPORT EMERGENCIES, CONTACT CHEMTREC, 1-800-424-9300**

Proper shipping description: Compound, Boiler Preserving

DOT Hazard Class(es): Not regulated

CERCLA Reportable Spill Quantity (RQ) = No RQ

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## Section 15: Regulatory Information

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<u>Regulation</u>	<u>Applicable</u>	<u>Notes</u>
OSHA Hazardous Material	Yes	Irritant
CERCLA Reportable Spill Quantity (RQ)	No	
EPCRA Section 302 Extremely Hazardous Substance	No	
EPCRA Section 311 Hazardous Material	Yes	Acute hazard
EPCRA Section 312 Hazardous Chemical Inventory	Yes	TPQ = 10,000 lbs.
EPCRA Section 313 Toxic Chemical	No	

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## Section 16: Additional Information

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<b><u>HMIS Hazard Rating</u></b>	
Health	1
Flammability	0
Reactivity	0
Personal Protection	B

0 = minimal

1 = slight

2 = moderate

3 = serious

4 = severe

Code B = safety glasses and chemical-resistant gloves