

MATERIAL SAFETY DATA SHEET

DATE ISSUED: 9/20/90

DATE REVISED:

Abbreviations: N/A = Not applicable; ND = No data or not known.

SECTION I: PRODUCT IDENTIFICATION & GENERAL INFORMATION

PRODUCT NAME: BLH-701AS
CHEMICAL NAME & SYNONYMS: N/A (mixture)
CAS NUMBER: N/A (mixture)
CHEMICAL FAMILY: Boiler water treatment.

PROPER SHIPPING NAME: Compound, Boiler Preserving

DOT HAZARD CLASS & ID NUMBER: Corrosive Material, UN-1824

DOT REQUIRED LABELS: Corrosive

TRANSPORTATION EMERGENCY: CHEMTREC: (800) 424-9300

MANUFACTURER'S NAME: Chemco Products, Inc.

MANUFACTURER'S EMERGENCY PHONE: (517) 546-7800

MANUFACTURER'S ADDRESS: 1349 Grand Oaks Dr., Howell, MI 48843

SECTION II: HAZARDOUS INGREDIENTS

Hazardous Agent	CAS #	Percent	Toxicity Data
Sodium hydroxide	1310-73-2	10-15	TLV: 2 mg/m ³
2-(diethylamino) ethanol	100-37-8	1-5	TLV: 2 mg/m ³

SECTION III: PHYSICAL DATA

BOILING POINT (°F): approx. 212
VAPOR PRESSURE (mm Hg): as water
VAPOR DENSITY (AIR = 1): as water
SOLUBILITY IN WATER: complete
APPEARANCE & ODOR: Opaque, dark brown, liquid; characteristic amine odor.

SPECIFIC GRAVITY (H₂O = 1): 1.2-1.3
% VOLATILE BY VOLUME: 1 to 5
pH AS SHIPPED: 13 to 14
OTHER:

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT, °F (method used): None at boiling
AUTO-IGNITION TEMPERATURE, °F: ND
EXTINGUISHING MEDIA: Suitable to surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus.
UNUSUAL FIRE & EXPLOSION HAZARDS: If heated above boiling, the amine component may ignite.

FLAMMABLE LIMITS: ND

SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ORAL INGESTION: Nausea, corrosion of mucosal and gastric tissues.
SKIN CONTACT: Irritation and possible burns on prolonged contact.
EYE CONTACT: Corrosive and painful, with possible permanent damage unless PROMPTLY removed.
INHALATION: Possible respiratory tract irritation or discomfort.
SUBCHRONIC, CHRONIC & OTHER EFFECTS: Repeated skin contact could cause dermatitis or aggravate existing dermatitis. Repeated inhalation of high concentrations of vapor may cause inflammation and injury to the respiratory system; may aggravate existing asthma and other existing respiratory irritations.

SECTION VI: EMERGENCY & FIRST AID PROCEDURES

Prompt action is essential in minimizing damage!

EYES: Immediately flush eyes (hold lids open) with plenty of running water for 15 minutes; get medical attention.

SKIN: Flush skin with lots of running water while removing contaminated clothing and shoes. Launder clothing before reuse. Get medical attention.

ORAL: Rinse out mouth with lots of water. If swallowed, do NOT give anything by mouth; do NOT induce vomiting. Get IMMEDIATE medical attention.

INHALATION: Remove victim to fresh air. Get medical attention.

NOTES TO PHYSICIAN: Gastric lavage may be indicated. Treat symptomatically.

SECTION VII: REACTIVITY DATA

STABILITY: This product is stable.

CONDITIONS TO AVOID: None specific.

INCOMPATIBILITY (materials to avoid): Acids, oxidizing & reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: (Thermal) Oxides of carbon, nitrogen, sulfur, phosphorous.

SECTION VIII: SPILL OR LEAK PROCEDURES

REPORTABLE QUANTITIES (RQ) IN LBS. OF EPA HAZARDOUS SUBSTANCES IN PRODUCT: N/A

NOTIFY EPA OF PRODUCT SPILLS EQUAL TO OR EXCEEDING N/A **GAL.**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wear rubber boots, rubber gloves, rubber apron and face shield. Small spills may be wiped or mopped up; large spills should be diked and covered with an inert absorbent material, swept up and discarded in an appropriate waste container, being sure to observe all government regulations regarding handling and disposal of wastes.

WASTE DISPOSAL METHOD: Material is consumed during use. Full-strength and spilled material should be discharged to an appropriate chemical waste treatment facility, observing all local, state and federal governmental regulations that apply.

SECTION IX: PERSONAL PROTECTION, HANDLING & STORAGE

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Splash-proof goggles or face shield.

OTHER PROTECTIVE CLOTHING: Rubber apron.

RESPIRATORY PROTECTION: Not required.

VENTILATION: Mechanical (general): Satisfactory. Local Exhaust: Not required.

STORAGE & HANDLING: Wear proper protective clothing whenever using or handling product. Keep drum closed when not in use. Store away from Incompatible Materials (Section VII). Protect from freezing.

ADDITIONAL INFORMATION

<u>HMIS Rating Code:</u>	0 = Minimal Hazard
	1 = Slight Hazard
Health-----3	2 = Moderate Hazard
Flammability-----1	3 = Serious Hazard
Reactivity-----2	4 = Severe Hazard
Personal Protection--D	D = Protective face shield, gloves and apron

To the best of our knowledge the information and recommendations contained herein are accurate. However, any and all chemicals and chemical mixtures may contain presently unknown or unrecognized health and/or environmental hazards and should be used with great care and caution. Therefore, we cannot assume liability for the completeness or total accuracy of the information contained herein; users should satisfy themselves by independent investigation that this material can be used safely.

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