

SAFETY DATA SHEET

Date Issued : 11/07/2018
 SDS No. : LH Mini Sani Brom
 Date Revised : 05/14/2019
 Revision No : 1

LH Mini Sani Brom

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LH Mini Sani Brom
PRODUCT DESCRIPTION: 1306N6SR
CHEMICAL FAMILY: Halogenated Hydantoin

DISTRIBUTOR

Litehouse Pools & Spas
 10883 Pearl Road, Suite 201
 Strongsville, OH 44136
Product Stewardship: (440) 638-2350

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Oral), Category 4
 Skin Sensitization, Category 1
 Skin Corrosion, Category 1C

Environmental:

Acute Hazards to the Aquatic Environment, Category 1

GHS LABEL



Corrosion



Environment



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H400: Very toxic to aquatic life.

PRECAUTIONARY STATEMENT(S)

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER/doctor/...
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P391: Collect spillage.
 P264: Wash ... thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P272: Contaminated work clothing should not be allowed out of the workplace.

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P405: Store locked up.
 P501: Dispose of contents/container to ...
 P362+P364: Take off contaminated clothing and wash it before reuse.

HAZARDS NOT OTHERWISE CLASSIFIED: May form combustible dust concentrations in air.

EUH031: Contact with acids liberates toxic gas.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White to off-white tablet with faint halogenous odor.

IMMEDIATE CONCERNS: Corrosive. Causes severe eye damage and skin burns. Eye contact may cause loss of vision. Irritating to nose and throat. Harmful if absorbed through skin or swallowed. If swallowed, DO NOT induce vomiting. This pesticide is toxic to fish and aquatic organisms. Strong oxidizing agent.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive. Causes severe eye damage.

SKIN: Causes severe skin burns. May cause skin sensitization.

INGESTION: Harmful if swallowed.

INHALATION: Shortness of breath, headache and nausea. Irritant to upper respiratory tract.

COMMENTS: Label: Oxidizing Agent (5.1); Oxidizing Solid, Corrosive, N.O.S. (Bromochloro-5, 5-Dimethylhydantoin)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Bromo-chloro-5, 5-dimethylhydantoin	94 - 98	32718-18-6

4. FIRST AID MEASURES

EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. See a doctor immediately.

SKIN: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Corrosive. No specific antidote. In case of ingestion, DO NOT induce vomiting. Treat symptomatically and supportively. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry powder, carbox dioxide or water spray. Water may be ineffective. In case of exothermic decomposition and appearance of smoke, water should be used to suppress it. DO NOT use dry chemical extinguisher containing ammonia compounds.

EXPLOSION HAZARDS: Oxidizing agent. Forms explosive mixtures with combustible, organic or other easily oxidizable materials. When heated to decomposition, may release poisonous and corrosive fumes. Dust may form a weak explosive mixture with air (class St1), but is not sensitive to ignition from electrostatic discharges.

FIRE FIGHTING PROCEDURES: Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Evacuate area. Use respirator with combined filter (inorganic gas and dust), gloves, chemical safety goggles and body covering clothes. If material is decomposing, use self-contained breathing apparatus and a fully encapsulated suit. ENVIRONMENTAL

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PRECAUTIONS: Prevent entry into sewers and watercourses.

RELEASE NOTES: Sweep up, place in a suitable container and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

SPECIAL PROTECTIVE EQUIPMENT: Use respirator with combined filter (inorganic gas and dust), gloves, chemical safety goggles and body covering clothes. If material is decomposing, use self-contained breathing apparatus and a fully encapsulated suit.

7. HANDLING AND STORAGE

HANDLING: Keep containers tightly closed.

STORAGE: Keep away from sources of ignition. Recommended storage temperature below 30°C (86°F). For transportation purposes it is possible to store at temperatures up to 50°C (122°F). Store in a dry, well-ventilated area. Store away from incompatible materials. Materials to avoid: Combustible organic materials. Bases. Oxidizing agents.

STORAGE TEMPERATURE: Recommended storage temperature below 30°C (86°F).

LOADING TEMPERATURE: For transportation purposes it is possible to store at temperatures up to 50°C (122°F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
		EXPOSURE LIMITS		
Chemical Name	Type		ppm	mg/m ³
Bromo-chloro-5, 5-dimethylhydantoin	OSHA PEL	TWA	N/E	
	ACGIH TLV	TWA	N/E	

ENGINEERING CONTROLS: Use local exhaust as necessary, especially under dusty conditions. Ventilation must be sufficient to maintain atmospheric concentration below recommended exposure limit.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical safety goggles.

SKIN: Wear neoprene gloves and body covering clothes and boots.

RESPIRATORY: Respirator with combined filter (inorganic gas and dust).

WORK HYGIENIC PRACTICES: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly before eating or smoking. Safety shower and eye bath should be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Faint halogenous odor

APPEARANCE: White to off-white tablet

FLASHPOINT AND METHOD: Not Applicable

FLAMMABLE LIMITS: Not Available

AUTOIGNITION TEMPERATURE: Not Available

VAPOR PRESSURE: 9.35x10⁻³ Pa (25°C)

VAPOR DENSITY: Not applicable under standard conditions

BOILING POINT: Not Applicable

MELTING POINT: Not applicable (decomposes)

THERMAL DECOMPOSITION: > 160°C

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SOLUBILITY IN WATER: .22 g/100ml at 25°C

PARTITION COEFFICIENT: N-OCTANOL/WATER: Kow = <1 (pH 5-9)

EVAPORATION RATE: Not applicable under standard conditions

SPECIFIC GRAVITY: 1.8 to 2.0

OXIDIZING PROPERTIES: Not sufficient for classification as oxidizer (Method A17 & UN Test 0.1)

10. STABILITY AND REACTIVITY

REACTIVITY: Combustible materials. Oxidizing agents. Bases.

HAZARDOUS POLYMERIZATION: No additional information available.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Exposure to moisture. Heating above decomposition temperature.

POSSIBILITY OF HAZARDOUS REACTIONS: Contact with combustible materials may initiate decomposition of the material and emission of smoke.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, HBr, Cl₂, NO_x, HCl, CO₂

INCOMPATIBLE MATERIALS: Oxidizing agents, bases, and combustible organic materials.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ORAL LD₅₀: 929 mg/kg - Rat

INHALATION LC₅₀: 1.1 mg/l/4 hour (powder) - Rat

SERIOUS EYE DAMAGE/IRRITATION: Dermal irritation (rabbit) - Corrosive

RESPIRATORY OR SKIN SENSITISATION: Sensitizer

GERM CELL MUTAGENICITY: Mutagenic by the Ames Test. Mutagenic in the mouse lymphoma L5178Y test system. Non genotoxic in an in-vivo micronucleous test in mice. Non genotoxic in an in-vivo liver unscheduled DNA synthesis (USD) assay.

CARCINOGENICITY

IARC: Not classified as a carcinogen.

NOTES: Not included in NTP 13th Report on Carcinogens. Not classified by IARC.

STOT-SINGLE EXPOSURE: No effects on specific target organs have been identified.

STOT-REPEATED EXPOSURE: Prolonged skin contact may cause sensitization.

ASPIRATION HAZARD: Not expected to occur.

12. ECOLOGICAL INFORMATION

BIOACCUMULATION/ACCUMULATION: Based on low Kow values, i.e. less than one, this product would not be predicted to significantly accumulate in aquatic organisms, or sorb to organic material in soil or sediment.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 1.2 mg/l (eastern oyster, Acute flow through)

1.9 mg/l (Mysid shrimp, Acute flow through)

0.4 mg/l (Rainbow trout, Static)

1.6 mg/l (Sheepshead minnow, Acute flow through)

48-HOUR EC₅₀: 0.75 mg/l (Static) (Daphnia Magna)

GENERAL COMMENTS: Mobility in soil: There will be no exposure of BCDMH to soil. The main degradation product, DMH, is mobile in soil.

COMMENTS:

Avian Toxicity:
 Oral LD50, Bobwhite Quail 1839 mg/kg

Dietary LC50, Mallard Duck >5620 ppm

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Dietary LC50, Bobwhite quail >5620 ppm

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in approved landfill sites or an approved incinerator. Avoid access to streams, lakes or ponds. Observe all federal, state and local environmental regulations when disposing of this material.

EMPTY CONTAINER: Crush and bury empty containers. Do NOT throw into public waste disposal site. Avoid contact with organic materials and moisture. See conditions to avoid in Section 10.

RCRA/EPA WASTE INFORMATION: This product does meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, with the following EPA hazardous waste number: D001

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Oxidizing Solid, N.O.S. (1-Bromo-3, chloro-5, 5-dimethyl hydantoin)

PRIMARY HAZARD CLASS/DIVISION: 5.1

UN/NA NUMBER: UN 1479

PACKING GROUP: III

LABEL: 5.1 Oxidizer

MARINE POLLUTANT #1: Yes

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Oxidizing

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: This product is a hazardous chemical under 29CFR 1910.1200 and is categorized as an IMMEDIATE, DELAYED HEALTH and REACTIVITY physical hazard.

313 REPORTABLE INGREDIENTS: This product does not contain a chemical listed at or above de minimis concentrations.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Not listed.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Below you will find the hazard information that is required on the EPA pesticide label.

GENERAL COMMENTS: HAZARD INFO FOUND ON BROMINATING TABS EPA LABEL:

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Eye contact may cause loss of vision. Harmful if inhaled. Irritating to nose and throat. Harmful if absorbed through skin or swallowed. This product is toxic to fish and aquatic organisms. Strong oxidizing agent.

16. OTHER INFORMATION

Date Revised: 05/14/2019

REVISION SUMMARY: This SDS replaces the 11/07/2018 SDS.

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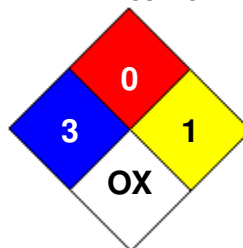
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HMIS RATING

HEALTH		3
FLAMMABILITY		0
PHYSICAL HAZARD		1
PERSONAL PROTECTION		

NFPA CODES



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