Material Safety Data Sheet

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1. Product and Company Identification

Effective Date: 10-22-2004
Revision: 00

Brom Tabs

Principal Use: Swimming pool and spa disinfectant

Description: White to off-white tablet with slight halogenous odor

N. Jonas and Co., Inc.

4520 Adams Circle
P.O. Box 425
Bensalem, PA 19020-0425

Telephone: (215) 639-8071

Only in the Event of a Transportation Emergency Involving Spills, Leaks, Fires or Accidents, call CHEMTREC at (800) 424-9300.

2. Composition/Information on Ingredients

Ingredients:	%(w/w)	OSHA PEL
Bromochloro-5,5-dimethylhydatoin CAS 32718-18-6)	98	Not listed

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications.

3. Hazards Identification

Emergency Overview

Appearance:

White to off-white tablet with faint halogenous odor

Physical Hazards:

Oxidizer

Health Hazards:

Corrosive. Causes irreversible eye damage and skin burns. Eye contact may cause loss of vision. Irritating to nose and throat. May be fatal if inhaled. Harmful if absorbed through skin or swallowed.

* Hazard summary defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200.

Potential Health Effects:

General:

This health hazard assessment based on information from commercial and scientific literature.

Ingestion:

Harmful if swallowed.

Eye Contact:

Causes irreversible eye damage. Eye contact may cause loss of vision.

Skin Contact:

Causes skin burns.

Skin Absorption:

May be fatal if absorbed through skin.

Inhalation:

Irritating to nose and throat. May be fatal if inhaled.

4. First Aid Measures:

First Aid - Eyes:

Hold eyelids 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.

First Aid - Skin:

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

First Aid - Ingestion:

Call a 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.

First Aid - Inhalation:

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

5. Fire Fighting Measures

Flashpoint and Method:

None

Autoignition Temperature:

Not applicable

Explosive Limits:

Not flammable

General Hazards:

Strong oxidizing agent. Forms explosive mixtures with combustible, organic or other easily oxidizable materials.

Fire Fighting Instructions:

Use dry powder, carbon dioxide or water spray as extinguishing media. Do not use ammonium phosphate extinguishing media near water and this product. Hazardous reactions may occur. Cool containers with water spray.

Fire Fighting Equipment:

In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

Hazardous Combustion Products:

When heated to decomposition, may release poisonous and corrosive fumes of HBr, Nox and HCl.

6. Accidental Release Measures

Spill Measures:

When dealing with spills, use impact-resistant goggles with side shields, or face shield, body-covering clothes, including impervious rubber or plastic gloves and boots. Use a dust respirator if dusting occurs. Sweep up dry spills and dispose of as described for pesticide disposal (See Section 13 DISPOSAL CONSIDERATIONS).

7.Handling and Storage

Handling:

Do not breathe dust or spray mist. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles with side shields, face shield or safety glasses, protective clothing and rubber gloves. Wear a mask or respirator jointly approved by MSHA and NIOSH. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not smoke, drink or eat when handling this product. Keep container tightly closed when not in use.

This product emits a powerful bromine gas. Do not open container indoors. Hold away from face when opening to avoid breathing fumes. Mixing with other chemicals may cause a violent and instantaneous chemical reaction. Do not add this product to water in a pail. Do not add water to this product in a pail. Follow label instructions exactly. Do not take advice from others. Do not experiment.

Contact between this product in its undissolved state and vinyl liners, painted surfaces or other property in or around the pool may result in permanent bleaching of the color.

Storage:

Do not contaminate water, food or feed by storage or disposal. Store in a dark, cool (below 86 deg. F. (37 deg. C.)), dry, well-ventilated area. Store in closed original containers away from energy sources, combustible organic materials, oxidizers, strong bases and moisture.

8. Exposure Controls/Personal Protection

Exposure Guidelines:

No ACGIH TLV or OSHA PEL assigned to this product. Minimize exposure in accordance with good hygiene practice.

Engineering Controls:

Use ventilation adequate to maintain safe levels. Provide eyewash station and safety shower in work area. Do not eat, drink or smoke until after work, showering and changing clothes.

Respiratory Protection:

Approved MSHA-NIOSH respirator.

Protective Clothing:

Body covering clothes and rubber boots.

Eye Protection:

Chemical safety goggles with side shields, face shield or safety glasses.

9. Chemical and Physical Properties

Appearance: White to off-white tablet with faint halogenous odor

Boiling Point:	Not applicable
Vapor Pressure:	9.35 x 10 (-3) Pa @ 25 deg. C.
Vapor Density:	Not applicable under standard conditions.
Solubility in Water:	0.2 gm/100 ml @ 25 deg. C.
pH:	No data
Specif. Grav./Density:	1.8 - 2.0
% Volatile:	No data

10. Stability and Reactivity

Stability:

Stable under normal conditions.

Incompatibility:

Oxidizing agents, combustible organic materials and bases. Avoid heating above 160 deg. C.

Hazardous Decomposition Products:

HBr, Br2 and HCl.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information

Possible Human Health Effects:

Inhalation:

The inhalation LC50 (rat) is 1.1 mg/l/4 hour (powder). Irritant to upper respiratory tract. May cause shortness of breath, headache and nausea.

Skin Contact:

Exposure to wet skin may cause skin burns. Prolonged skin contact may cause allergic reactions in some individuals..

Eye Contact:

Causes irreversible eye damage. Eye contact may cause loss of vision.

Ingestion:

The acute oral LD50 (rat) is 929 mg/kg. Harmful if swallowed..

Other Effects of Overexposure:

Not known to be a carcinogen. Not included in NTP 9th Report on Carcinogens. Not classified by IARC. Mutagenic by Ames Test.

Note to Physician:

Probable mucosal damage may contraindicate the use of gastric lavage.

12. Ecological Information

Aquatic toxicity

-96 Hour LC50 - Fish: 0.4 mg/l (Rainbow trout, Static)
0.46 mg/l (Bluegill sufish, Static)
1.6 mg/l (Sheepshead minnow, Acute flow through)
1.2 mg/l (Eastern oyster, Acute flow through)
1.9 mg/l (Mysid shrimp, Acute flow through)

-48 Hour LC50, Daphnia magna: 0.75 mg/l (Static)

Avian toxicity
-Bobwhite quail, acute oral LD50: 1,839 mg/kg
-Mallard duck, dietary LC50: >5,620 ppm
-Bobwhite quail, dietary LC50: 5,620 ppm

13. Disposal Consideration

Disposal Method:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

This material is classified as a RCRA hazardous waste with the characteristics of ignitability, hazardous waste number D001. Observe all federal, state and local environmental regulations when disposing of this material. Dispose of waste in approved landfill sites or an approved incinerator.

Container Disposal:

Completely empty container. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. Transport Information

DOT Hazard Description:

DOT Hazard Description
Proper Shipping Name: OXIDIZING SOLID, N.O.S.
Hazard Class: 5.1
Identification Number: UN 1479
Packing Group: II
Hazardous Substance (RQ): None
Placard/Label: OXIDIZER

15. Regulatory Information

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are listed on the TSCA Chemical Substances Inventory. This product is registered with EPA as a pesticide.

CERCLA and SARA Regulations (40 CFR 355, 370, 372):

This product does not contain any chemicals subject to the reporting requirements under CERCLA.

California Proposition 65:

None

16. Other Information

The information herein is given in good faith, but no warranty, expressed or implied, is made.

HMIS and NFPA Ratings

Hazard:	HMIS Ratings:	NFPA Ratings:
Health:	3	3
Flammability:	0	0
Reactivity:	1	1

HMIS and NFPA Hazard Rating Codes:

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

NOTE: These HMIS and NFPA Ratings are for "new" product. See appropriate sections of this MSDS for specific hazard information and safe handling instructions.