

MATERIAL SAFETY DATA SHEET

Bromine Enhancer.

Date Issued: 07/14/2008

MSDS No: Blue Wave Go Brom

Date Revised: 08/20/2008

Revision No: 2

Blue Wave Go Brom

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Blue Wave Go Brom

GENERAL USE: Bromine Enhancer.

DISTRIBUTOR

Blue Wave Products
1745 Wallace Ave # B
St Charles IL 60174

Product Stewardship: (800) 759-0977

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: Substance does not irritate intact skin. Slight irritant to abraded skin.

INGESTION: Adbominal pain, nausea, vomiting. May cause drowsiness, muscular incoordination and respiratory depression.

INHALATION: Irritant to upper respiratory tract.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: Repeated skin contact may cause dermatitis. Repeated oral intake of bromides (>9 mg/kg body weight/day) may affect the central nervous system. Warning symptoms include mental dullness, slurred speech, weakened memory, apathy, anorexia, constipation, drowsiness, and loss of sensitivity to touch and pain.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Sodium Bromide	99	007647-15-6	231-599-9

4. FIRST AID MEASURES

EYES: Holding eyelids apart, flush with plenty of water for at least 20 minutes. Get medical attention immediately.

SKIN: Immediately wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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INGESTION: If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately. Never give an unconscious person anything to drink.

INHALATION: In case of dust inhalation or the breathing of fumes of heated material, remove person to fresh air. Keep warm and quiet. Apply artificial respiration if necessary and get medical attention immediately.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Flammable

FLAMMABLE LIMITS: 0 to 0

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Will decompose from 800 deg C releasing poisonous and corrosive fumes of hydrogen bromide and sodium oxide.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Sweep up and place in bag. Hold for waste disposal or possible re-use. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

HANDLING: Avoid bodily contact. Keep containers tightly closed.

STORAGE: Store in a cool, dry, well-ventilated area away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Sodium Bromide	TWA	[1]	[1]	[1]	[1]
Footnotes:					
1. Not established.					

ENGINEERING CONTROLS: Use with adequate ventilation.**PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE:** Safety glasses recommended.**SKIN:** Protective gloves.**RESPIRATORY:** If needed, use OSHA-NIOSH approved respirator with cartridge for dusts/mists.**PROTECTIVE CLOTHING:** Body protective clothing and shoes.**WORK HYGIENIC PRACTICES:** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Safety shower and eye bath should be provided.**9. PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL STATE:** Solid**ODOR:** None.**APPEARANCE:** White crystalline granules**pH:** Not Available**VAPOR PRESSURE:** 1 mm Hg @ 806 deg C**VAPOR DENSITY:** N/A.**BOILING POINT:** 1390 °C**FREEZING POINT:** N/A**MELTING POINT:** 755 °C**FLASHPOINT AND METHOD:** Not Flammable**SOLUBILITY IN WATER:** 94.6 g / 100 ml @ 25 deg C**SPECIFIC GRAVITY:** 3.203

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10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heating above decomp temperature of 800 deg C.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen bromide and sodium oxide.

INCOMPATIBLE MATERIALS: Strong acids, strong oxidants, heavy metal salts. Reacts explosively with bromine trifluoride.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 2000 mg/kg (rabbit)

ORAL LD₅₀: 4200 mg/kg (rat)

EYE EFFECTS: A slight irritant (rabbit)

SKIN EFFECTS: Not a skin irritant (rabbit). Not a sensitizer (guinea pig).

TERATOGENIC EFFECTS: Sodium bromide has been shown to cause embryo-fetal toxicity and malformations in rats at dose levels which also produce maternal toxicity. The No-Observed Effect Level (NOEL) is 100 mg/kg per day, and the acceptable daily intake (ADI) for sodium bromide from food and drinking water in humans is 1 mg/kg per day.

Comparable high doses of sodium chloride (table salt) similarly cause malformation, embryo-fetal toxicity, and maternal toxicity in mice.

MUTAGENICITY: Does not induce DNA repair in cultured human epitheloid cells. Not clastogenic in human lymphocytes metaphase analysis. Not mutagenic by the Ames test.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Sodium bromide is an organic salt, which fully dissociates in aquatic environment to bromide and sodium ions. It also undergoes degradation in soil to bromide ion (no further degradation or biodegradation will occur.)

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: > 1000 mg/L (Rainbow Trout)

48-HOUR EC₅₀: > 1000 mg/L (Daphnia Magna)

GENERAL COMMENTS: Avian Toxicity: Oral LD50 >2250 mg/kg (Bobwhite Quail)

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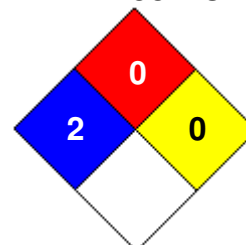
Dietary LC50 >5633 ppm (Mallard Duck)

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHOD:** Dispose of in accordance with applicable local, state, and federal regulations.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Not Regulated.**15. REGULATORY INFORMATION****UNITED STATES****TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Sodium Bromide	007647-15-6

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This is an EPA-registered product.**16. OTHER INFORMATION****REVISION SUMMARY:** Revision #: 2 This MSDS replaces the July 14, 2008 MSDS. Any changes in information are as follows:**HMIS RATING**

HEALTH:	<input type="checkbox"/>	2
FLAMMABILITY:	<input type="checkbox"/>	0
PHYSICAL HAZARD:	<input type="checkbox"/>	0
PERSONAL PROTECTION:		

NFPA CODES

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