



SAFETY DATA SHEET
Brom Bank For Spas – 0095

Product Name: Brom Bank For Spas
Date: 8/19/2015

SECTION 1 **IDENTIFICATION**

Supplier: Phoenix Products Company
55 Container Drive
Terryville, CT 06786
(860) 589-7502

Distributor:

U.S. PERS Emergency Telephone: 1-800-633-8253
Product Name: **Brom Bank For Spas**
Synonyms: Sedoneural; Bromide salt of sodium; Bromnatrium (German)
Chemical Name: Sodium Bromide
Chemical Formula: NaBr
CAS Number: 7647-15-6
Product Use: A solution of bromide salts that produces bromine sanitizer when used with Serena Spa Spa Care Brominating Tabs.

SECTION 2 **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

Regulatory Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Potential Health Effects:
Hazardous in case of: Eye Contact (irritant)
Ingestion
Inhalation

Slightly hazardous in case of: Skin Contact (irritant).

SECTION 3 **COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS Number	Percent
Sodium Bromide	7647-15-6	30%-35%

SECTION 4 **FIRST-AID MEASURES**

Eye Contact: Hold eye 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.

Skin Contact: 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.

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.



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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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.

Unusual Fire and Explosion Hazards: Will decompose from ca. 800°C releasing poisonous and corrosive fumes of hydrogen bromide and sodium oxide.

Fire Fighting Procedure: Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear respirator, chemical safety goggles, rubber gloves and boots.

Methods for Cleaning Up: Sweep up, place in a bag and hold for waste disposal or possible reuse. Ventilate area and wash spill site after material pickup is complete.

Environmental Precautions: Prevent entry into sewers and watercourses.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid bodily contact. Keep containers tightly closed.

Storage: Keep in a well-ventilated place away from incompatible materials (see "materials to avoid").

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements: Provide adequate ventilation.

Personal Protective Equipment

Respiratory Protection: In case of significant or accidental dust emissions, dust mask should be worn.

Hand Protection: Protective gloves

Eye Protection: Chemical safety goggles

Skin and Body Protection: Body covering clothes and boots

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

Exposure Limits



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Permissible Exposure Limits						
CAS No.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
7647-15-6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White granular powder or compacted solid
Odor:	Odorless
Melting Point/Range:	755°C
Boiling Point/Range:	1390°C
Flash Point:	None
Evaporation rate (ether=1):	Not applicable under standard conditions
Flammable/Explosion Limits:	Not flammable Vapor pressure 1 mmHg (806°C)
Vapor Density:	Not applicable under standard conditions
Solubility:	Solubility in water: 94.6 gr/100ml at 25°C Solubility in other solvents: ethanol: 95%: 7 g/100g at 25°C methanol: 14.8 g/100g at 25°C
Partition Coefficient (n-octanol/water):	Not applicable since this material is almost completely soluble in water.
Auto-Ignition Temperature:	Not applicable
Specific Gravity:	3.203

SECTION 10 **STABILITY AND REACTIVITY**

Reactivity: Reacts explosively with bromine trifluoride.
Stability: Stable at normal conditions. The powder product tends to cake under normal storage conditions.
Possibility of Hazardous Reactions: Not expected to occur.
Conditions to Avoid: Heating above decomposition temperature.
Materials to Avoid: Strong acids. Heavy metal salts. Strong oxidants.
Hazardous Decomposition Products: Hydrogen bromide and sodium oxide. Bromine fumes.

SECTION 11 **TOXICOLOGICAL INFORMATION**

Likely Routes of Exposure: Skin. Eye Contact. Inhalation. Ingestion.

Acute Toxicity: Rat oral LD50: 4200 mg/kg
Rabbit dermal LD50: >2000 mg/kg

Eye irritation (rabbit): Slightly irritant
Dermal irritation (rabbit): Not irritant

Dermal Sensitization: Not a sensitizer.

Chronic Toxicity: Repeated skin contact may cause dermatitis. Repeated oral intake of bromides (>9 mg/kg



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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.

Mutagenicity: Does not induce DNA repair in cultured human epithelioid cells. Not clastogenic in human lymphocytes metaphase analysis. Not mutagenic by the Ames Test.

Carcinogenicity: Not classified by IARC. Not included in NTP 12th Report on Carcinogens.

Reproductive Toxicity: 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/day, and the Acceptable Daily Intake (ADI) for sodium bromide from food and drinking water in humans is 1 mg/kg/day. Comparable high doses of sodium chloride (table salt) similarly cause malformations, embryo-fetal toxicity, and maternal toxicity in mice.

SECTION 11 **TOXICOLOGICAL INFORMATION - Continued**

Teratogenicity: In the oral gavage pre-natal developmental toxicity study in the Rabbit, there were no obvious effects of maternal treatment on the survival, growth or development of the offspring at any of the dosages investigated.

SECTION 12 **ECOLOGICAL INFORMATION**

Environmental Fate: NaBr is an inorganic 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

96 Hour-LC50, Fish:	>1000 mg/l (rainbow trout) >1000 mg/l (bluegill sunfish)
48 Hour-EC50, Daphnia magna:	>1000 mg/l

Avian Toxicity

Oral LD50, Bobwhite quail:	>2250 mg/kg
Dietary LC50, Mallard duck:	>5633 ppm
Dietary LC50, Bobwhite quail:	>5633 ppm

Toxicity to Micro-Organisms: Activated sewage sludge respiration inhibition test: EC50 > 1000 mg/l (3 hours). NOEC was 1000 mg/l (3 hours)

Persistence and Degradability: Not relevant for inorganic salts

Bioaccumulative Potential: Not expected to bioaccumulate. BCF=0.23-1.41.

Mobility in Soil: Not relevant for inorganic salts

SECTION 13 **DISPOSAL CONSIDERATIONS**

Waste Disposal: Observe all federal, state and local environmental regulations when disposing of this material.



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Disposal of Packaging: Dispose of in a safe manner in accordance with local/national regulations.

SECTION 14 *TRANSPORTATION DATA*

DOT: Not Dangerous Goods
TDG: Not Dangerous Goods
MEX: Not Dangerous Goods
IMDG: Not Dangerous Goods
IATA: Not Dangerous Goods

SECTION 15 *REGULATORY INFORMATION*

USA: Reported in the EPA TSCA Inventory. This product is registered under FIFRA.

Emergency Overview in Accordance to EPA Master Label:

CAUTION
Harmful if swallowed
Harmful if absorbed through the skin
Do not mix this product directly with any chlorinated material or any oxidizer product.
This pesticide is toxic to fish and aquatic organisms.

SARA 313: Not listed

Canada: Listed in DSL

WHMIS Hazard Class: D2A - Very toxic material causing other toxic effects

Japan: ENCS no. 1-113
ISHL no. 1-113

Australia: Listed in AICS

China: China inventory: Listed in IECSC

Korea: Listed in ECL (KE-31368)

Philippines: Listed in PICCS

SECTION 16 *ADDITIONAL INFORMATION*

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 8/19/2015
Phoenix Products Company