

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Spa Bromine Start

CAS # Mixture

Product use Spa water treatment

Manufacturer Natural Chemistry, Inc.
40 Richards Ave.
Norwalk CT 06854 US

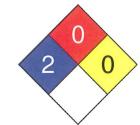
Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview WARNING
EYE IRRITANT

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.
Skin May cause irritation.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

IngestionMay cause stomach distress, nausea or vomiting.Target organsCentral nervous system Eyes. Skin. Respiratory system.

Chronic effects Prolonged contact with sodium bromide may produce rashes, central nervous system

depression, emaciation, psychoses and mental deterioration. Prolonged or repeated

exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium Bromide	7647-15-6	90 - 100

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eves and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Oxides of sodium. Hydrogen bromide.

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment

Methods for cleaning up

Prevent entry into waterways, sewers, basements or confined areas.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Storage Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)

Exposure Limits

Sodium Bromide

ACGIH-TLV Not established **OSHA-PEL**

Not established

Engineering controls

Personal protective equipment

Use only under good ventilation conditions or with respiratory protection.

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Crystalline. **Appearance**

Color White Solid **Form** Odor Odorless **Odor threshold** Not available Solid Physical state Not available рΗ Not available Freezing point **Boiling point** Not available Flash point Not available **Evaporation rate** Not available Flammability limits in air, lower, % Not applicable by volume Flammability limits in air, upper, % Not applicable by volume Vapor pressure Not available Vapor density Not available Not available Specific gravity Octanol/water coefficient Not available **Auto-ignition temperature** Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Caustics. Acids. Oxidizers.

Hazardous decomposition products May include and are not limited to: Oxides of sodium. Hydrogen bromide.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Sodium Bromide Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Sodium Bromide 2000 mg/kg rabbit; 7000 mg/kg mouse; 3500 mg/kg rat

Effects of acute exposure

EyeMay cause irritation.SkinMay cause irritation.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by OSHA criteria.

Chronic effects Prolonged contact with sodium bromide may produce rashes, central nervous system

depression, emaciation, psychoses and mental deterioration.

CarcinogenicityNon-hazardous by OSHA criteria.MutagenicityNon-hazardous by OSHA criteria.Reproductive effectsNon-hazardous by OSHA criteria.TeratogenicityContains a potential teratogen.

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12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data

Sodium Bromide

7647-15-6

Ecotoxicity - Freshwater Fish Species Data

Sodium Bromide

7647-15-6

96 Hr EC50 Scenedesmus pannonicus: 5.8-24 g/L

96 Hr LC50 Oryzias latipes: 24000-96000 mg/L [flow-through; 96 Hr LC50 Poecilia

reticulata: 16000-48000 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 16479

mg/L [static]

Ecotoxicity - Water Flea Data

Sodium Bromide

7647-15-6

48 Hr EC50 Daphnia magna: 5.8-48 g/L

Environmental effects Not available Aquatic toxicity Not available Not available Persistence / degradability Bioaccumulation / accumulation Not available Partition coefficient Not available Mobility in environmental media Not available

13. Disposal Considerations

Waste codes

Not available

Not available

Disposal instructions

Chemical fate information

Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available Not available Clean Water Act (CWA) Not available Safe Drinking Water Act (SDWA) **Drug Enforcement Agency (DEA)** Not available

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(FDA)

Not available

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

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