

Product name Clear Spa ¹⁰⁴ Spa Solutions Bromo Boost

Revision date 6-11-15

Product ID: Bromo Boost

Chemical Name: Sodium Bromide **Synonyms:** Sodium Bromide

Chemical Formula:

CAS Number:

7647-15-6

Product Use:

Pool Algaecide

Supplier: Oreq Corporation

42306 Remington Avenue Temecula, CA 92590

951-296-5076

Emergency Phone# Chemtrec: 1-800-424-9300

GHS classification Not Classified Labels and other form of warning Not Classified

Components	CAS No.	Weight %
Sodium Bromide	7647-15-6	98-100

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.

Ingestion Call poison control center, or doctor immediately for treatment advise.

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.

Most important symptoms and effects, acute or delayed

None known

Note to physician No specific antidote.

Treat symptomatically and supportively.

Probable mucosal damage may contraindicate the use of gastric lavage.



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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

Personal precautionsUse dust respirator, rubber gloves and chemical safety goggles.

Methods for cleaning upSweep up, place in a bag and hold for waste disposal or possible re-use

Ventilate area and wash spill site after material pickup is complete.

Avoid raising dust.

Environmental precautions Prevent entry into sewers and watercourses

Handling Avoid bodily contact. Keep containers tightly closed.

Storage Keep in a well-ventilated place away from incompatible materials

(see "materials to avoid").

Exposure Limits:

Exposure Limits .			
Components	ACGIH-TLV Data	OSHA (PEL) Data	
Sodium Bromide	Not determined	Not determined	
7647-15-16			

Ventilation requirements Provide adequate ventilation.

Personal protective equipment:

- 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 carefully before eating or smoking. Safety shower and eye bath

should be provided.

Appearance White, odorless, crystalline solid

Melting point/range755°CBoiling point/range1390°CFlash pointNone

Evaporation rate (ether=1)Not applicable under standard conditions

Flammable/Explosion limits Not flammable



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Vapour 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 temperatureNot applicableViscosity:Not applicable

Specific gravity 3.203

Explosive propertiesOxidizing properties
Not explosive
Not oxidizing

Reactivity Reacts explosively with bromine trifluoride.

Stability Stable under 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. Strong oxidants. Heavy metal salts.

Hazardous Decomposition

Products Hydrogen bromide and sodium oxide Bromine fumes

Likely Routes of Exposure Skin

Eye contact Inhalation Ingestion

Acute toxicity:

Rat oral LD50
 Rabbit dermal LD50
 Rat dermal LD50
 Eye irritation (rabbit)
 Dermal irritation (rabbit)
 4200 mg/kg
 2000 mg/kg
 Slightly irritant
 Not irritant

Dermal sensitization Not a sensitizer

Chronic toxicity 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.

Mutagenicity Does not induce DNA repair in cultured human epithelioid cells.

Not clastogenic in human lymphocytes metaphase analysis.

Not mutagenic by the Ames Test



Clear Spa 104 Spa Solutions Bromo Boost **Product name**

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Carcinogenicity Not classified by IARC / Not included in NTP 13th 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.

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. The No Observed Effect Level (NOEL)

for the developing conceptus was considered to be 250 mg/kg/day.

Aspiration hazard Not expected to occur

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

Activated sewage sludge respiration inhibition test: EC50 > 1000 mg/l (3 hours). **Toxicity to micro-organisms**

NOEC was 1000 mg/l (3 hours)

Not relevant for inorganic salts

Persistence and degradability

Bioaccumulative potential

Not expected to bio-accumulate BCF=0.23-1.41

Not relevant for inorganic salts Mobility in soil

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

Packaging disposal Dispose of in a safe manner in accordance with local/notional regulations.

DOT Not regulated

IMDG Not regulated

ICAO/IATA Not regulated



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USA Reported in the EPA TSCA Inventory

This product is registered under FIFRA.

- Emergency overview in Sodium Bromide-SP (EPA Reg. No. 8622-78)

accordance to EPA Master Label CAUTION

Causes eye irritation

Harmful if absorbed through skin or swallowed This product is toxic to fish and aquatic organisms.

Sodium Bromide-COMP (EPA Reg. No. 8622-45)

CAUTION

Harmful if absorbed through skin or swallowed This product 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

EU Reported in EINECS

EC No. 231-599-9

Japan ENCS no. 1-113

ISHL no. 1-113

Australia Listed in AICS

New Zealand Inventory Listed in NZIoC

China inventory Listed in IECSC

Korea Listed in ECL (KE-31368)

Philippines Listed in PICCS

DATE OF PREPARATION 6-11-15

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