



SAFETY DATA SHEET

Product name Sodium Bromide

Revision date 6-11-15

Product ID: Sodium Bromide

Chemical Name: Sodium Bromide

Synonyms: Sodium Bromide

Chemical Formula: NaBr

CAS Number: 7647-15-6

Product Use: For Fast Treatment of Yellow & Mustard Algae in Swimming Pools

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

Note to physician None known
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 precautions Use dust respirator, rubber gloves and chemical safety goggles.

Methods for cleaning up Sweep 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 :

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

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 carefully before eating or smoking. Safety shower and eye bath should be provided.

Appearance White, odorless, crystalline solid
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



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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 temperature	Not applicable
Viscosity:	Not applicable
Specific gravity	3.203
Explosive properties	Not explosive
Oxidizing properties	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	4200 mg/kg
- Rabbit dermal LD50	>2000 mg/kg
- Rat 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 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



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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
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 bio-accumulate BCF=0.23-1.41
Mobility in soil	Not relevant for inorganic salts
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 accordance to EPA Master Label

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