

# SAFETY DATA SHEET

## SECTION 1 MATERIAL NAME / IDENTIFIER

**Bromine Booster**

**WHMIS: It is not regulated under WHMIS. It is regulated under PCP Act.**

**Manufacturer's Name:** CAPO INDUSTRIES LTD  
**Street Address:** 1200 CORPORATE DRIVE  
**City:** BURLINGTON, ONTARIO  
**Postal Code:** L7L 5R6

**Emergency Telephone:** Canutec (613) 996-6666 (Collect)

**Chemical Name:** Sodium Bromide

**Chemical Family:** Inorganic Salt

**Chemical Formula:** NaBr

**Trade Name & Synonyms:** Not applicable

**Molecular Weight:** Not applicable

**Material Use:** Spa disinfectant

## SECTION 2 HAZARDS IDENTIFICATION

**GHS classification:** None

**Symbol:** None

**Signal Word:** None

**Hazard statements:** None

**Precautionary statements:** None

## SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS#	% Concentration
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No Regulated Components

## SECTION 4 FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a poison control center or doctor for further 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.

**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

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treatment advice.

**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.

**Note to physicians** No specific antidote. Treat symptomatically and supportively. Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION 5 FIRE – FIGHTING MEASURES

**Hazardous Combustion Products:** Hydrogen bromide, sodium oxide and bromine fumes.  
**Unusual Fire or Explosion Hazards:** Will decompose at 800°C.  
**Sensitivity to Mechanical Impact:** None  
**Rate of Burning:** Not applicable  
**Explosive Power:** None  
**Sensitivity to Static Discharge:** None  
**Fire Extinguishing Media:** Use media appropriate for surrounding fire.  
**Instructions to the Fire Fighters:** Cool containers with water spray.  
**Fire Fighting Protective Equipment:** Wear self-contained breathing apparatus in positive pressure mode.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Leak And Spill Procedure:** Use dust respirator, rubber gloves and chemical safety goggles. 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. Avoid raising dust. Prevent entry into sewers and watercourses.

## SECTION 7 HANDLING AND STORAGE

### HANDLING

**Handling Practices:** Avoid bodily contact. Keep containers tightly closed. Wash hands thoroughly after handling.  
**Ventilation Requirements:** Use in a well ventilated area.

### STORAGE

**Ventilation Requirements:** Store in a cool, dry place.  
**Storage Requirements:** Keep away from incompatible materials.

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## SECTION 8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

Skin (Specify): Butyl or natural rubber gloves if skin contact is likely.

Eye (Specify): Safety glasses if eye contact is likely.

Respiratory (Specify): Dust mask if dust inhalation is likely.

Other (Specify): Impervious clothing if body contact is likely. Eye wash and shower stations are close to work area.

## SECTION 9

## PHYSICAL DATA FOR MATERIAL

Physical State: Gas                      Liquid                      Solid                      X

Odour & Appearance: White, odourless, crystalline solid

Odour Threshold (ppm): Not applicable

Flammability:                      Yes                      No                      X

If Yes, Under Which Conditions?:

Auto Ignition Temperature (Celsius): Not applicable

Upper Explosion Limit (% By Volume): Not applicable

Lower Explosion Limit (% By Volume): Not applicable

Decomposition Temp (°C)                      800°C

Specific Gravity:                      3.2

Viscosity:                      Not applicable

Vapour Pressure (mm):                      1mm Hg (806°C)

Vapour Density (Air-1):                      Not applicable

Flashpoint (°C)                      Not applicable

Evaporation Rate                      Not applicable

Boiling Point (°C):                      1390°C

Freezing Point (°C):                      755°C

Solubility In Water (20°C):                      94.6 g/100 ml @ 25°C

% Volatile (By Weight)                      0%

PH:                      Not available

Coefficient Of Water/Oil Distribution: Not applicable

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## SECTION 10 STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Yes	<input checked="" type="checkbox"/>	No
<b>If No, Under Which Conditions?:</b>			
<b>Incompatibility To Other Substances:</b>	Yes	<input checked="" type="checkbox"/>	No
<b>If So, Which Ones:</b>	Strong acids, strong oxidants and heavy metal salts.		
<b>Conditions to Avoid:</b>	Heating above decomposition temperature. Reacts explosively with Bromine trifluoride.		
<b>Hazardous Decomposition Products:</b>	Hydrogen bromide, sodium oxide and bromine fumes.		

## SECTION 11 TOXICOLOGICAL INFORMATION

### ACUTE HEALTH EFFECTS

<b>Inhalation:</b>	Dusts will irritate nose and throat.
<b>Skin Contact:</b>	None expected.
<b>Eye Contact:</b>	Eye contact will cause irritation.
<b>Ingestion:</b>	Stomach upset – nausea.

**CHRONIC HEALTH EFFECTS:** Prolonged 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.

**Other Health Effects:** None known.

**LD 50 of Material (Specify Species and Routes):** 4200 mg/kg, Oral (Rat), >2000 mg/kg, Dermal (Rabbit)

**LC 50 of Material (Specify Species and Routes):** Not available

**Exposure (Limits):** Not determined

**Irritancy of Material:** Eye irritant

**Sensitization of Material:** None known

**Synergistic Materials:** None known

**Carcinogenicity, Mutagenicity, Reproductive Effects, Teratogenicity:** Sodium bromide has been known 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. Sodium bromide isn't known to be carcinogenic, mutagenic or teratogenic.

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## SECTION 12

## ECOLOGICAL INFORMATION

**Ecotoxicity** 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 h, LC50 Fish: >1000 mg/l (rainbow trout)  
>1000 mg/l (bluegill sunfish)

48 h, 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

### Environmental Fate

**Biodegradability:** 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:** Dispose material in accordance with federal, provincial and local regulations.

**Safe Handling of Residues:** Dispose of residues in accordance with federal, provincial and local regulations.

**Disposal of Packaging:** Dispose of packaging in accordance with federal, provincial and local regulations.

## SECTION 14

## TRANSPORTATION INFORMATION

**CANADIAN TDG ACT SHIPPING DESCRIPTION:** Not regulated

**Proper shipping name:** Not applicable

**Class:** Not applicable

**Packing group:** Not applicable

**UN:** Not applicable

**US DOT CLASSIFICATION (49CFR 172.101, 172.102):** Not regulated

**Proper shipping name:** Not applicable

**Class:** Not applicable

**Packing group:** Not applicable

**UN:** Not applicable

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## SECTION 15

## REGULATORY INFORMATION

**CANADA** Listed in the DSL. This product is registered under PCP Act.

**WHMIS:** Non-controlled

**USA** Reported in the EPA TSCA inventory. This product is registered under FIFRA.

### INTERNATIONAL

**EU**-Reported in EINECS, EC No.-231-599-9, **Japan**-ENCS no. 1-113, ISHL no. 1-113, **Australia**-Listed in AICS, **New Zealand**-Listed in NZIoC, **China**-Listed in IECSC, **Korea**-Listed in ECL (KE-31368), and **Philippines**-Listed in PICCS.

## SECTION 16

## OTHER INFORMATION

**Prepared By (Group, Department, Etc.):** Quality Control Telephone: (905) 332-6626

**Preparation Date:** December 18, 2016

**Date Revised:** December 1, 2020

**Additional Notes Or References:**

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