



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Zinc (III) Bromide**

PRODUCT NUMBER: 3883-2

CAS NUMBER: 7699-45-8

SYNONYMS: Zinc dibromide

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Phrases

P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)**HMIS CLASSIFICATION:**

Health: 3 Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 3 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: Causes serious eye damage.**SKIN CONTACT:** May cause an allergic skin reaction.**INHALATION:** May be harmful if inhaled.**INGESTION:** Harmful if swallowed.**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**Formula: ZnBr₂

Molecular Weight: 225.20

CHEMICAL NAME	CAS#	%
Zinc Bromide	7699-45-8	100

SECTION 4 FIRST AID MEASURES**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under the eyelids. Seek immediately medical attention.**SKIN EXPOSURE:** Immediately wash with water and soap and rinse thoroughly. Seek medical attention.**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.**SECTION 5 FIREFIGHTING MEASURES****FLASH POINT:** Product is not flammable**AUTO IGNITION TEMPERATURE:** Not available**EXPLOSION LIMITS:** Not available**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen bromide gas and zinc oxides**SECTION 6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid formation of dust. Avoid breathing vapors, mist, dust, or gas.**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Without creating dust, sweep up and place in a suitable container for proper disposal.**SECTION 7 HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Moisture sensitive. Store away from oxidizing agents, strong bases, water, and moisture. Hygroscopic. Protect from humidity.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: This product contains no substances with occupational exposure limit values.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves and a suit, which provides full protection.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid

ODOR: None

MOLECULAR WEIGHT: 225.20

BOILING POINT: 697°C

MELTING POINT: 394°C

SPECIFIC GRAVITY: 4.2 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under recommended conditions

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Exposure to moisture

INCOMPATIBILITY: Oxidizing agents, bases, water, moisture, sodium oxides, and potassium.

DECOMPOSITION PRODUCTS: Hydrogen Bromide gas and zinc oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD 50 Oral – rat – 1,447mg/kg. LD50 Dermal – rabbit - >2,000 mg/kg. Corrosive – Rabbit Skin. Severe Irritation – Rabbit Eye. Maximisation Test – Guinea Pig – May cause sensitization by skin contact.

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: This substance has had mutagenic effects observed on tests with laboratory animals.

TETRAOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Exposure to zinc containing fumes may cause Metal Fume Fever. Inorganic bromides may produce depression, emaciation, and rarely psychosis and other mental deterioration. Bromderma (A bromide rash) may also occur.

RTECS: ZH1150000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – Other fish – 115.9 mg/l – 96h

AQUATIC INVERTEBRATE: EC50 – Daphnia magna (Water flea) – 8.8 mg/l 48h

TERRESTRIAL: EC50 Skeletonema costatum – 6.6 mg/l 72h.

Toxic to aquatic life with long lasting effects

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3260

Corrosive solid, acidic, inorganic, n.o.s.

(Zinc Bromide Hydrate)

CLASS 8

PG II

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard

SARA (TITLE 313): Zinc Bromide

MASSACHUSETTS RIGHT TO KNOW: Zinc Bromide

PENNSYLVANIA RIGHT TO KNOW: Zinc Bromide

NEW JERSEY RIGHT TO KNOW: Zinc Bromide

CALIFORNIA PROP. 65: Not Listed

SECTION 16 OTHER INFORMATION

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