

## LTS Research Laboratories, Inc. Safety Data Sheet Zinc bromide

## Trade Name: Chemical Formula: Recommended Use:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:

24-Hour Emergency Contact:

## 1. Product and Company Identification

Zinc bromide ZnBr<sub>2</sub> Scientific research and development

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800-424-9300 (US & Canada) +1-703-527-3887 (International)



	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction. H318: Causes serious eye damage.
	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray
	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+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
	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+P310: IF INHALED: Remove victim to fresh air and kee at rest in a position comfortable for breathing. Immediately call a
	POISON CENTER or doctor/ physician.
	P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water fo
	several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing. Immediately call a POISON CENTER/doctor. P333+P313: If skin irritation or rash occurs: Get medical advice/
	attention. P363: Wash contaminated clothing before rouse
	P363: Wash contaminated clothing before reuse. P391: Collect spillage.
	P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal plant.
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HMIS Health Ratings (0-4): Health:	3
Flammability:	0
Physical:	1
	3. Composition
Chemical Family: Additional Names:	Nonmetal Zinc dibromide
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	100
Zinc bromide (ZnBr <sub>2</sub> ): Percentage: CAS #:	100 wt% 7699-45-8

4. First Aid Procedures		
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Use neutralizing agent. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Avoid contact with the eyes and skin. Handle under dry protective gas. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store away from water/moisture, strong bases, oxidizing agents. This product is hygroscopic. Protect from humidity and water. Store apart from materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	

8. E	Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	N/A N/A
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber gloves with minimum thickness of 0.11 mm
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9	. Physical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	4,470 g/L
Boiling Point:	650 °C
Melting Point:	394 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.201 g/cc (at 20 °C)
Molecular weight:	225.20 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, bases, Sodium/sodium oxides, Potassium. Forms
	shock-sensitive mixtures with certain other materials.
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen bromide, Zinc/zinc oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Harmful if swallowed. Swallowing will lead to a strong corrosive effec
0	of mouth and throat and to the danger of perforation of esophagus and
	stomach.
Inhalation:	May cause irritation
Chronic:	N/Ă
Signs & Symptoms:	Cough, shortness of breath, headache, nausea, vomiting
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	1,447 mg/kg for rat by mouth
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or
equal to 0.1% is identified as a carcinogen or potential carcinogen by
OSHA.

	12. Ecological Information
Aquatic Toxicity:	Toxicity to fish semi-static test LC50 - other fish - 115.9 mg/l - 96 h
	(OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates Immobilization
	EC50 - Daphnia magna (Water flea) - 8.8 mg/l - 48 h (OECD Test
	Guideline 202) Toxicity to algae Growth inhibition EC50 - Skeletonema costatum
	(marine diatom) - $6.6 \text{ mg/l} - 72 \text{ h}$
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulati Notes:	
	Do not allow material to be released to the environment without prope
	governmental permits.
	Do not allow product to reach ground water, water course or sewage
	system.
	Danger to drinking water if even small quantities leak into the ground.
	Also poisonous for fish and plankton in water bodies.
	May cause long lasting harmful effects to aquatic life.
	Very toxic for aquatic organisms.
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, sta	te, national, and international regulations.
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	14. Transportation Data CD
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## 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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08/10/2018

