

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

1. Product and Company Identification	
Trade Name:	Zinc iodide
Chemical Formula:	$ZnI_2$
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H314: Causes severe skin burns and eye damage
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray
	P264: Wash skin thoroughly after handling.
	P280: Wear protective gloves/ protective clothing/ eye protection/ face
	protection. 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.
	P363: Wash contaminated clothing before reuse. P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal
	plant.
HMIS Health Ratings (0-4):	
Health:	3
Flammability:	0
Physical:	1
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3. Composition		
Chemical Family:	Nonmetal	
Additional Names:	Zinc diiodide	
Zinc iodide (ZnI <sub>2</sub> ):		
Percentage:	100 wt%	
CAS #:	10139-47-6	
EC #:	233-396-0	
	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:	Rinse mouth. Do not induce vomiting. Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove an	
E.	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 eserch	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
Contraction Fighting Data data	surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective	
Spec. Fire Fighting Procedure:	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:	Handle under dry protective gas. Avoid contact with the eyes and skin.	
Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store away from water/moisture, 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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	$0.01 \text{ mg/m}^3$ as I <sub>2</sub> , long-term value	
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	Beige	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	4,500  g/L - soluble	
Boiling Point:	625 °C 446 °C	
Melting Point: Flash Point:	446 °C N/A	
	N/A N/A	
Autoignition Temperature: Density:	4.74 g/cc	
Molecular weight:	319.20 g/mol	
	517/20 21101	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, potassium, strong acids	
Incompatible Conditions:	Water/moisture, air, light, and moisture sensitive.	
Hazardous Decomposition Products:	Metal oxide fume, hydrogen iodide, zinc/zinc oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage	
Skin:	Causes severe skin burns	
Ingestion:	May cause irritation	
Inhalation: Chronic:	May cause irritation	
Chronic:	Overexposure may cause reproductive disorder(s) based on tests with	
	laboratory animals. Swallowing will lead to strong corrosive effect on mouth and throat and to danger of perforation of esophagus and	
	stomach.	
Signs & Symptoms:	Cough, shortness of breath, headache, nausea, vomiting	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
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 o 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:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative: Notes:	N/A Do not allow material to be released to the environment without property
	Do not allow material to be released to the environment without proper 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, state	e, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
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Hazard Class:	8 Corrosive substances
Packing Group:	III
UN Number:	UN3260
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (Zinc iodide)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Can 204 Demontal la Orientitiene	N/A
Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	Yes

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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