

## LTS Research Laboratories, Inc. Safety Data Sheet Gallium triiodide

## 1. Product and Company Identification

Trade Name: Chemical Formula: Recommended Use:

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

Tel #:

24-Hour Emergency Contact:

Gallium triiodide GaI<sub>3</sub> Scientific research and development

LTS Research Laboratories, Inc. 37 Ramland Road Orangeburg New York 10962 USA 855-587-2436 / 855-lts-chem

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. H317: May cause an allergic skin reaction.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H361: Suspected of damaging fertility or the unborn child.
Precautionary Statements:	P260: Do not breathe dust or mist.
	P264: Wash skin thoroughly after handling.
	P272: Contaminated work clothing should not be allowed out of the
	workplace. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P284: Wear respiratory 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.
	P333+P313: If skin irritation or rash occurs: Get medical advice/
	attention.
	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
	3. Composition
Chemical Family:	Nonmetal
Additional Names:	Gallium (III) iodide
Gallium triiodide (GaI <sub>3</sub> ):	
Percentage:	100 wt%
CAS #:	13450-91-4
EC #:	236-611-6

	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:	Do not use water and foam for fires – use CO <sub>2</sub> , sand, extinguishing powder.
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 agents. 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. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. store under dry
	inert gas. Store in the dark. Store away from strong bases, acids, water/moisture. Protect from humidity and water. Protect from exposure to light. This product is moisture sensitive. 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:	N/A	
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet.	
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	N/A	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Decomposes in water	
Boiling Point:	345 °C	
Melting Point:	212 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
The second		
Density:	4.15 g/cc	

## 10. Reactivity

Stability: Reacts With: Incompatible Conditions: Hazardous Decomposition Products:	Stable under recommended storage conditions Oxidizing agents, acids, bases Water/moisture, light Metal oxide fume, hydrogen iodide, gallium oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Swallowing will lead to strong corrosive effect on mouth and throat and to danger of perforation of esophagus and stomach.
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	<ul><li>ARC: 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.</li><li>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.</li></ul>

<ul><li>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.</li><li>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</li></ul>		
OSHA.		
12. Ecological Information		
N/A		
N/A N/A		
Do not allow undiluted product or large quantities to reach ground		
water, water course or sewage system.		
Avoid transfer into the environment.		
13. Disposal Considerations		
, national, and international regulations.		
14. Transportation Data		
Hazardous for transportation.		
8 toratorias, inc.		
8 Corrosive substances		
II		
UN3260		
Corrosive solid, acidic, inorganic, n.o.s. (Gallium triiodide)		
15. Regulatory Information		
No		
N/A		
No		
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.

Document Last Revised:

05/17/2019