

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

1. Product and Company Identification	
Trade Name:	Gallium sulfide
Chemical Formula:	$Ga_2S_3$
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
	Lesearch
Hazard Statements:	H314: Causes severe skin burns and eye damage
Precautionary Statements:	<ul> <li>P260: Do not breathe dust/fume/gas/mist/vapours/spray</li> <li>P303+P361+P353: IF ON SKIN (or hair): Remove/Take off</li> <li>immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for</li> <li>several minutes. Remove contact lenses if present and easy to do –</li> <li>continue rinsing</li> <li>P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce</li> <li>vomiting</li> <li>P405: Store locked up</li> <li>P501: Dispose of contents/container in accordance with</li> <li>local/regional/national/international regulations</li> </ul>
HMIS Health Ratings (0-4):	
Health:	3
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Gallium(III) sulfide, Gallium sesquisulfide
Gallium sulfide (Ga <sub>2</sub> S <sub>3</sub> ):	100 +0/
Percentage: CAS #:	100 wt%
EC #:	12024-22-5 234-688-0
EC #:	2J4-000-0

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	Causes severe skin burns.
	Causes serious eye damage.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce
Skin:	vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any
SKIII.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Do not use water. Use 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. Isolate spill area and provide
	ventilation. 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 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 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.	Exposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles, full face protection
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.

9.1	Physical and Chemical Characteristics
Color	Yellow
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Reacts
Boiling Point:	N/A
Melting Point:	1255 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.77 g/cc
Molecular weight:	376.32 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Water/moisture, Oxidizing agents
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Sulfur dioxide, Hydrogen sulfide, Sulfur oxides, Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes severe eye damage.
Skin:	Causes severe skin burns.
Ingestion:	a strong corrosive effect on mouth and throat to the danger of
	perforation of esophagus and stomach.
Inhalation:	May cause irritation
Chronic:	Gallium and gallium compo9unds may cause metallic taste, dermatitis and depression of the bone marrow function. Large doses may cause hemorrhagic nephritis.
Signs & Sumptoms	N/A
Signs & Symptoms:	
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

	14. Transportation Data
Hazardous:	Hazardous for transportation.
	CORROSIVE 8
Hazard Class:	8 Corrosive substances.
Packing Group:	II
UN Number:	UN3260
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (Gallium sulfide)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A

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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