

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

### 1. Product and Company Identification

Trade Name: Gallium sulfide

Chemical Formula: GaS

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/vapours/spray

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 0 Physical: 1

# 3. Composition

Chemical Family: Ceramic

Additional Names: Gallium(II) sulfide, Gallium monosulfide

Gallium sulfide (GaS):

Percentage: 100 wt% CAS #: 12024-10-1 EC #: 234-688-0

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. Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: 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** Rubber gloves Protective Gloves: Eve Protection: Safety glasses or goggles, full face protection

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

**Body Protection:** 

9. P	hysical and Chemical Characteristics		
Color	Yellow		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Reacts		
Boiling Point:	N/A		
Melting Point:	965 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	3.87 g/cc		
Molecular weight:	101.78 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		
8	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 & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
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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.



Hazard Class: 8 Corrosive substances.

Packing Group: II UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Gallium sulfide)

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Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: 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.

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