

LTS Research Laboratories, Inc. Safety Data Sheet Gallium Nitrate

1. Product and Company Identification

Trade Name: Gallium nitrate
Chemical Formula: Ga(NO₃)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



Hazard Statements: H272: May intensify fire; oxidizer

H315: Causes skin irritation

H319 Causes serious eye irritation

Precautionary Statements: P221: Take any precaution to avoid mixing with combustibles

P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P220: Keep/Store away from clothing/.../combustible materials P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 2

3. Composition		
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Chemical Family: Additional Names:	Inorganic salt Gallium (III) nitrate	
Additional Names.	Gaintin (III) intrate	
Gallium nitrate (Ga(NO ₃) ₃):		
Percentage:	0-100 wt%	
CAS #:	13494-90-1	
EC #:	236-815-5	
Water (H ₂ O)		
Percentage:	0-100 wt%	
CAS #:	7732-18-5	
EC #:	231-791-2	
	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.	
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce	
05000000	vomiting or give anything by mouth to an unconscious person.	
Skin:	Wash affected area with mild soap and water. Remove any	
	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:	Highly flammable in contact with flammable materials	
Extinguishing Media:	Do not use water for fire – use CO2, 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. 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.	
En incomental Days of the co	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. Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
*** 1 07	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	
, omnunon.		
	threshold limit.	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection: Protective Gloves:	Dust Respirator	
	Rubber gloves	
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long	
Body Flotection.	sleeves/pants.	
9.	Physical and Chemical Characteristics	
Color	White	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Soluble	
Boiling Point:	N/A	
Melting Point:	110 °C	
Flash Point:	N/A	
Autoignition Temperature:	Contact with combustible material may cause fire	
Density:	N/A	
Molecular weight:	255.74 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Reducing agents, flammable substances, Oxidizing agents	
Incompatible Conditions:	Water/moisture, flammable substances, organic materials, metal	
	powders	
Hazardous Decomposition Products:	Nitrogen oxides, Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye irritation	
Skin:	Causes skin irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	The following RTECS statement/statements refer to the anhydrous compound:	
	The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance	
Median Lethal Dose:	4360 mg/kg for mouse by mouth	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Rioaccumulation Toxicity:	N/A	

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: N/A N/A Notes:

Do not allow material to be released to the environment without proper

governmental permits.

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

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

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 5.1 Oxidizing Substances

Packing Group: PG III
UN Number: UN1477

Proper Shipping Name: Nitrates, inorganic, n.o.s. (Gallium nitrate)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

Sec 313 Toxic Chemicals:

N/A Research N/A korstories, Inc.

N/A

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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