

## LTS Research Laboratories, Inc. Safety Data Sheet Gadolinium (III) sulfate octahydrate

## 1. Product and Company Identification

Trade Name:	Gadolinium (III) sulfate octahydrate
Chemical Formula:	$Gd_2(SO_4)_3*8H_2O$
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:	Warning
	$\wedge$
	LTE research
Hazard Statements:	H315: Causes skin irritation
Hazard Statements:	H315: Causes skin irritation H319: Causes serious eye irritation
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Ceramic Digadolinium trisulfate octahydrate
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$(SO_4)_3 * 8H_2O):$
100 wt%
13450-87-8
237-115-2
4. First Aid Procedures
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult.
Keep patient warm. Seek immediate medical attention.
Seek immediate medical attention.
Immediately wash affected area with mild soap and water. Remove any
contaminated clothing. Seek immediate medical attention.
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
Non-flammable
C Research
No special restrictions – use suitable extinguishing agent for
surrounding material and type of fire.
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
special protection information. Keep unprotected persons away. 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.
Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Avoid contact with skin and eyes. Wash thoroughly after handling.
Store in a cool dry place in a tightly sealed container. Store away from
oxidizing agents. This product is hygroscopic. Store apart from materials and conditions listed in section 10.
Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
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8. Exposure Controls and Personal Protection		
Permissible Exposure Limits: Threshold Limit Value:	N/A N/A	
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:	Rubber gloves	
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long	
Body Hoteeton.	sleeves/pants.	
9	. Physical and Chemical Characteristics	
Color	N/A	
Form:	Crystalline aggregates	
Odor:	Odorless	
Water Solubility:	Soluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	4.139 g/cc	
Molecular weight:	746.81 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Metal oxide fume, sulfur oxides, gadolinium oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye irritation	
Skin:	Causes skin irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause respiratory irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
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 of 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 o 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:	N/A
Notes:	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:	Not hazardous for transportation.
Hazard Class:	N/A
Packing Group:	N/A
0 1	N/A
UN Number:	N/A N/A
UN Number:	
UN Number: Proper Shipping Name:	N/A
UN Number: Proper Shipping Name: 	N/A 15. Regulatory Information
UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	N/A 15. Regulatory Information No

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:

02/18/2019