

LTS Research Laboratories, Inc. Safety Data Sheet Gadolinium (III) chloride hexahydrate

1. Product and Company Identification

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Trade Name:	Gadolinium (III) chloride hexahydrate
Chemical Formula:	GdCl ₃ *6H ₂ O
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
	LTE research
Hazard Statements:	H315: Causes skin irritation
	H319: Causes serious eye irritation
	H335: May cause respiratory irritation
Precautionary Statements	
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3. Composition		
Chemical Family:	Nonmetal	
Additional Names:	N/A	
Gadolinium (III) chloride hexahydrate	(GdCl ₃ *6H ₂ O):	
Percentage:	100 wt%	
CAS #:	13450-84-5	
EC #:	233-386-6	
	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 an contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
J.	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
	Non-flammable	
	C - Research	
Extinguishing Media:	No special restrictions - use suitable extinguishing agent for	
~ ~ ~ ~ ~ ~ ~	surrounding material and type of fire.	
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. 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.	
Stamps Can litiana	Store in a cool dry place in a tightly sealed container. Store under dry	
	inert gas. Store away water/moisture, acids, strong bases, oxidizing	
Storage Conditions:	mere gus, store anay much moisture, uclus, subilg buses, oniuizing	
Storage Conditions:	agents. This product is hygroscopic. Protect from humidity and water	
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Work/Hygienic Maintenance:	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:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
9	P. Physical and Chemical Characteristics	
Color	Light grey	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A	
Water Solubility:	Soluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	2.424 g/cc	
Molecular weight:	371.7 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, acids, bases	
Incompatible Conditions:	Water/moisture	
Hazardous Decomposition Products:	Metal oxide fume, hydrogen chloride gas, gadolinium oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye irritation	
Skin:	Cause 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:	100 mg/kg for mouse by intravenous	
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:	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
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
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.

Document Last Revised:

05/14/2019