

EC #:

LTS Research Laboratories, Inc. Safety Data Sheet Gadolinium Nitrate hydrate

1. Product and Company Identification Trade Name: Gadolinium Nitrate hydrate Chemical Formula: Ga(NO₃)₃*xH₂O Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. Street: 37 Ramland Road City: Orangeburg State: New York 10962 Zip Code: 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 H335: May cause respiratory irritation P210: Keep away from heat. **Precautionary Statements:** P220: Keep/Store away from clothing/ combustible materials. P221: Take any precaution to avoid mixing with combustibles. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations HMIS Health Ratings (0-4): Health: 1 0 Flammability: Physical: 2 3. Composition Chemical Family: Ceramic Gadolinium (III) nitrate hydrate Additional Names: Gadolinium Nitrate hydrate (Ga(NO₃)₃*xH₂O): Percentage: 100 wt% 94219-55-3 CAS #:

233-437-2

	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. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	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
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water due to its inefficiency – use CO ₂ , 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. Keep unprotected persons away. Isolate spill area and provide ventilation. Acts as an oxidizing agent on organic materials such as wood, paper and fats. Keep away from combustible material. 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 skin and eyes.
	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container.
	Substance/product can reduce the ignition temperature of flammable
	substance. This substance is an oxidizer and its heat of reaction with
	reducing agents or combustibles may cause ignition. Store away from flammable substances, reducing agents, metal powders, water/moisture
	Do not store with organic materials. Store under dry inert gas. This
	product is hygroscopic. Protect from humidity and water. 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. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	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, ponetories, inc.
9.	Physical and Chemical Characteristics
Color	White
Form:	Crystalline
Odor:	Odorless
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	92°C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	2.406 g/cc
Molecular weight:	N/A
	10. Reactivity
Stability:	May intensify fire; oxidizer
Reacts With:	Reducing agents, flammable substances, organic materials, metal
	powders
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, nitrogen 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:	3,805 mg/kg for rat by mouth
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 or 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 or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A Bestarch N/A 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.

Hazardous: Hazardous for transportation Hazard Class: 5.1 Oxidizing substances Packing Group: III UN Number: UN1477 Proper Shipping Name: Nitrates, inorganic, n.o.s. (Gadolinium Nitrate hydrate) 15. Regulatory Information Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A	14. Transportation Data		
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Sec 313 Toxic Chemicals: No	Sec 313 Toxic Chemicals:	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.

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02/18/2019