

1. Product and Company Identification	
Trade Name:	Cerium Gadolinium Alloy
Chemical Formula:	CeGd
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
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	le le contractiones ries, inc.
Hazard Statements:	H228: Flammable solid
	H261: In contact with water releases flammable gas
	H302+H312+H332: Harmful if swallowed, in contact with skin or if
	inhaled
	H315 Causes skin irritation
	H319 Causes serious eye irritation
	H335: May cause respiratory irritation
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No
	smoking.
	P223: Keep away from any possible contact with water, because of
	violent reaction and possible flash fire.
	P231+P232: Handle under inert gas. Protect from moisture.
	P240: Ground/bond container and receiving equipment.
	P241: Use explosion-proof electrical/ventilating/lighting equipment.
	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264: Wash face, hands and any exposed skin thoroughly after
	handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection.
	P301 + P312 + P330 IF SWALLOWED: Call a POISON
	CENTER/doctor if you feel unwell. Rinse mouth.
	P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a
	POISON CENTER/doctor if you feel unwell.
	P304 + P340 + P312 IF INHALED: Remove person to fresh air and
	keep comfortable for breathing. Call a POISON CENTER/doctor if you
	feel unwell.

 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical advice/attention. P335+P334: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362: Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcoholresistant foam to extinguish. P402 + P404 Store in a dry place. Store in a closed container. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.
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3. Composition
Alloy N/A
N/A
0.100
0-100 wt% 7440-45-1
231-154-9 Research
2.5. In the second seco
0-100 wt%
7440-54-2
231-162-2
4. First Aid Procedures
Seek medical attention if symptoms persist.
None
None
Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.
Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Seek
medical attention. Wash affected area with mild soap and water. Remove any
contaminated clothing. Seek medical attention. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

	5. Firefighting Measures
	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , dry powder, dry 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 Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from
Storage Conditions.	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 threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	N/A N/A
Special Equipment:	None
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 Hotection.	sleeves/pants.
	9. Physical and Chemical Characteristics
Color	Grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A N/A
Boiling Point: Melting Point:	N/A N/A
Flash Point:	N/A N/A
Autoignition Temperature:	N/A N/A
Density:	N/A

	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, Strong acids, Halogens, Zinc, Water.
Incompatible Conditions:	Excess heat. Keep away from open flames, hot surfaces and
-	sources of ignition. Exposure to air. Exposure to moisture.
Hazardous Decomposition Products:	Heavy metal oxides, Cerium Oxides, Gadolinium Oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious irritation
Skin:	Harmful in contact with skin
Ingestion:	Harmful if swallowed
Inhalation:	Harmful if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
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	13. Disposal Considerations
Dispose of in accordance with local, state	, national, and international regulations.
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Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	14. Transportation Data Hazardous as powder only

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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10/26/2020

