

LTS Research Laboratories, Inc. Safety Data Sheet Cerium Chloride Heptahydrate

1. Product and Company Identification

Trade Name: Chemical Formula:	Cerium Chloride Heptahydrate CeCl ₃ ·7H ₂ O
Recommended Use:	Scientific research and development
	Scientifie resource 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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Hazard Statements:	H314: Causes severe skin burns and eye damage
	H410: Very toxic to aquatic life with long lasting effects
Precautionary Statements:	
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapors/spray
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HMIS Health Ratings (0-4): Health:	3
Flammability: Physical:	0 1
	3. Composition
Chemical Family:	Inorganic Material
Additional Names:	Cerium (III) Chloride Heptahydrate
Cerium Chloride Heptahydrate (CeCl	3·7H ₂ O):
Percentage:	100 wt%
CAS #:	18618-55-8
EC #:	232-227-8
	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. Do
	not use mouth-to-mouth method if victim ingested or inhaled the
	substance. Call a physician or poison control center immediately.
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious
	person. Do not induce vomiting. Drink water. Immediate medical
C1	attention is required.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Call a physician immediately.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing.
	condict tonses if present and easy to do. Continue tinising.
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	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. 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.
Environmental Presentions	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

7. Handling and Storage		
Handling Conditions:	Wash thoroughly after handling. Wear personal protective	
	equipment/face protection. Use only under a chemical fume hood	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. 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	
vonnunon.	threshold limit.	
8. Ex	posure Controls and Personal Protection	
Permissible Exposure Limits:	None	
Threshold Limit Value:	None	
Special Equipment:	None	
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.	
	Physical and Chemical Characteristics	
	Thysical and Chemical Characteristics	
Color	Yellow	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	N/A Research	
Water Solubility:	Soluble Soluble	
Boiling Point:	N/A	
Melting Point:	848 °C	
Flash Point:	N/A	
Autoignition Temperature: Density:	N/A 3.94 g/cc	
Molecular weight:	3.94 g/cc 372.58 g/mol	
	572.56 gritter	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Strong oxidizing agents, Strong acids, Bases	
Incompatible Conditions:	Incompatible products. Excess heat. Exposure to moist air or water.	
Hazardous Decomposition Products:	Hydrogen chloride gas, Cerium oxides	

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11. Toxicological Information
Potential Health Effects:
        Eyes:
                                           Causes severe eye damage
        Skin:
                                           Causes severe skin burn
        Ingestion:
                                           May cause irritation
        Inhalation:
                                           May cause irritation
                                           N/A
        Chronic:
Signs & Symptoms:
                                           Causes burns by all exposure routes. Ingestion causes severe swelling,
                                           severe damage to the delicate tissue and danger of perforation and
                                           irritations of mucous membranes in the mouth, pharynx, esophagus and
                                           gastrointestinal tract. Inhalation causes mucosal irritations, cough,
                                           shortness of breath, and possible damage in respiratory tract.
Aggravated Medical Conditions:
                                           N/A
                                           LD50: 2800 mg/kg for rat by mouth
Median Lethal Dose:
Carcinogen:
                                           N/A
                                           12. Ecological Information
Aquatic Toxicity:
                                           Toxic
Persistent Bioaccumulation Toxicity:
                                           N/A
Very Persistent, Very Bioaccumulative:
                                           N/A
Notes:
                                           N/A
                                           13. Disposal Considerations
Dispose of in accordance with local, state, national, and international regulations.
                                             14. Transportation Data
Hazardous:
                                           Hazardous for transportation
Hazard Class:
                                           8 Corrosive Materials
Packing Group:
                                           Π
UN Number:
                                           UN1759
Proper Shipping Name:
                                           Corrosive solids, n.o.s. (Cerium Chloride Heptahydrate)
                                           15. Regulatory Information
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No

N/A

No

Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:

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:

04/20/2021

