

## XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Cerium Chloride

1. Product and Company Identification		
Trade Name:	Cerium cholride	
Chemical Formula:	CeCl <sub>3</sub>	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shaanxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Warning	
Hazard Statements:	H315 Causes skin irritation. H319 Causes serious eye irritation. H335: May cause respiratory irritation	
Precautionary Statements:	<ul> <li>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue</li> </ul>	
	rinsing. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing	
	P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability:	0	
Physical:	1	
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	3. Composition
Chemical Family:	Salt
Additional Names:	Cerium(III) Chloride, Cerium trichloride, Cerous chloride
Cerium chloride (CeCl <sub>3</sub> ):	
Percentage:	100 wt%
CAS #:	7790-86-5
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.
Ingestion:	Seek Medical Attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
2)00.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
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. 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 Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under inert gas. 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
, ora riggionie manitenance.	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
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Ventilation:	Provide sufficient ventilation to maintain concentration at or below

8. Expo	sure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
	standards.
Drata stine Classes	
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
0 Ph	vsical and Chemical Characteristics
9. ГП	
Color	White to pale grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Soluble
Boiling Point:	1717 °C
Melting Point:	848 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.92 g/cc
Molecular weight:	246.48 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Water, Bases, Oxidizing agents
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Hydrogen chloride, Cerium oxide
<u> </u>	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Chrome.	IV/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A N/A
Median Lethal Dose:	2111 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative	Low No

13. Disposal	Considerations
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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		

Dispose of in accordance with local, state, national, and international regulations.

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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