



Material Safety Data Sheet

HAZARD WARNING	S	RISK PHRASES				PROTECTIVE CLOTHING		
×		Irritating to skin, eyes, and the respiratory system. Hygroscopic keep container tightly sealed.						
Section I. Chemical Product and Company Identification								
Chemical Name Cerium(III) Chloride Anhydrous								
Catalog Number	C2058	C2058					CI America 211 N. Harborgate St.	
Synonym	Cerous Chloride	Cerous Chloride				Po	ortland OR 800-423-8616	
Chemical Formula	CeCl ₃	CeCl ₃						
CAS Number	7790-86-5	/790-86-5			In case of Emergency Call	(8	nemtrec® 00) 424-9300 (U.S.) 02) 527 2337 (International)	
							03) 527-3887 (International)	
Section II. C	composition ar	nd Informa	tion on Ing	gredient	ts			
Chemical N	ame	me CAS Number Percent (%)		TLV/PEL			Toxicology Data	
Cerium(III) Chloride	Anhydrous	hydrous 7790-86-5 Min. 93.0 (T) Not avai		Not available	able.		Rat LD_{50} (oral) 2111mg/kg Mouse LD_{50} (oral) 5277mg/kg Rat LD_{50} (intravenous) 6262mg/kg	
Section III. F	lazards Identif	ication						
Acute Health Effects Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, occasionally, blistering. Chronic Health Effects Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound. Chronic Health Effects CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.						ed by itching, scaling, reddening, or, en handling this compound.		
Section IV. F	irst Aid Measu	res						
Eye Contact		Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. COLD water may be used. Get medical attention.						
Skin Contact	In case of contact, i be used.Wash cloth	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. COLD water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.						
Inhalation		If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.						
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.							
Section V. F	ire and Explos	ion Data						
Flammability	May be combustible	May be combustible at high temperature.		Auto-Ignition No		t available.		
Flash Points	Not available.	Not available.			Flammable Limits Not a		available.	
Combustion Products		These products include halogenated compounds, cerium oxides. WARNING: Highly toxic HCl gas is produced during combustion.						
Fire Hazards	Not available.							
Explosion Hazards		Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.						
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet. Consult with local fire authorities before attempting large scale fire-fighting operations.							

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Section VI.	Accidental Release Measures	S						
Spill Cleanup Instructions	Irritating material. Hygroscopic material. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Use a shovel to put material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state and/or local authorities for assistance on disposal.							
Section VII.	Handling and Storage							
Handling and Storage Information	IRRITANT. HYGROSCOPIC. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust. Always store away from incompatible compounds such as strong oxidizing agents, metals, strong acids, moisture.							
Section VIII.	Exposure Controls/Personal	Protection						
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.							
Personal Protection	Splash goggles. Dust respirator. Lab coat. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.							
Exposure Limits	Not available.							
Section IX.	Physical and Chemical Prope	erties						
Physical state @ 20°C	Solid. (White to pale yellow crystalline powder.)	Solubility	Soluble in water (exothe tetrahydrofuran.	rmic),				
Specific Gravity	Not available.							
Molecular Weight	246.48	Partition Coefficient	Not available.					
Boiling Point	1727℃ (3140.6℉)	Vapor Pressure	Not applicable.					
Melting Point	722 ℃ (1331.6 °F)	Vapor Density	Not available.					
Refractive Index	Not available.	Volatility	Not available.					
Critical Temperature	Not available.	Odor	Not available.					
Viscosity	Not available.	Taste	Not available.					
Section X.	Stability and Reactivity Data							
Stability	This material is stable if stored under proper	r conditions. (See Section VII for	rinstructions)					
Conditions of Instability	Air and light sensitive. Hygroscopic; keep c	Air and light sensitive. Hygroscopic; keep container tightly closed.						
Incompatibilities	Reactive with strong oxidizing agents, metal	Reactive with strong oxidizing agents, metals, strong acids, moisture.						
Section XI.	Toxicological Information							
RTECS Number	FK5075000							
Routes of Exposure	Eye Contact. Ingestion. Inhalation.	Eye Contact. Ingestion. Inhalation.						
Toxicity Data	Rat LD ₅₀ (oral) 2111mg/kg Mouse LD ₅₀ (oral) 5277mg/kg Rat LD ₅₀ (intravenous) 6262mg/kg							
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.							
Acute Toxic Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.							

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Section XII.	Ecological Information
Ecotoxicity	Not available.
Environmental Fate	Not available.
Section XIII.	Disposal Considerations
Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.
Section XIV.	Transport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not applicable.
Proper Shipping Name	Not applicable.
Packing Group (PG)	Not applicable.
DOT Pictograms	\bigotimes
Section XV.	Other Regulatory Information and Pictograms
TSCA Chemical Invento (EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	On DSL.
EINECS Number (EEC	232-227-8
EEC Risk Statements	R36/37/38- Irritating to eyes, respiratory system and skin.
Japanese Regulatory Da	ENCS No. (1)-0622

Section XVI. Other Information

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Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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