

# LTS Research Laboratories, Inc. Safety Data Sheet Holmium Chloride

# 1. Product and Company Identification

Trade Name: Holmium chloride

Chemical Formula: HoCl<sub>3</sub>

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: Warning



Hazard Statements: H315 Causes skin irritation.

H319 Causes serious eye irritation. H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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

3. Composition						
Chemical Family:	Ceramic					
Additional Names:	None					
Holmium chloride (HoCl <sub>3</sub> ):						
Percentage:	100 wt%					
CAS #:	10138-62-2					
EC #:	233-387-1					
	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					
Evice	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove					
Eyes:	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					
TI III G III						
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 dry 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					
. J G	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. Exposure Controls	and Personal Protection	
_	 			Т

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.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

# 9. Physical and Chemical Characteristics

Color White/yellow

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Molecular weight: 271.29 g/mol

# 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Oxidizing agents

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Metal oxide fume, Hydrogen chloride

### 11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

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: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

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

14. Transportation Data	14.	Trans	portation	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

#### 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: 07/10/2015