

LTS Research Laboratories, Inc. Safety Data Sheet

Cesium Hydroxide Hydrate

1. Product and Company Identification

Trade Name: Cesium Hydroxide Hydrate

Chemical Formula: CsOH.xH2O

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



Hazard Statements: H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P264: Wash skin thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

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.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P304+P340+ P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER/ doctor.

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

P310: Immediately call a POISON CENTER or doctor/physician

P363: Wash contaminated clothing before reuse

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

	3. Composition
Chemical Family: Additional Names:	Metal Hydroxide Cesium hydroxide
Cesium Hydroxide (CsOH.xH2O)	
Percentage:	100 wt%
CAS #:	12260-45-6
EC #:	244-344-1
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove the victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention
Ingestion:	Rinse mouth with water. Do not induce vomiting. Seek medical attention.
Skin:	Wash the affected area with mild soap and water. and plenty of water. Remove any contaminated clothing. Seek medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if presented and easy to do. Continue rinsing. Seek
	medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable essarch
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires –
	use CO2, sand, and 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 the spill using a high-efficiency particulate
	absolute (HEPA) air filter and place it 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:	Avoid contact with skin and eyes. Do not breathe dust.
Storage Conditions:	Keep in a dry, cool, and well-ventilated place. Keep the container
	tightly closed. Protect from direct sunlight. Incompatible Materials.
	Strong oxidizing agents. Metals.
Work/Hygienic Maintenance:	Do not use tobacco or food in the work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
TT - 27 - 27	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below the
	threshold limit.

	8. Exposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Use a recommended dust respirator or mask. Only use equipment tested and approved under appropriate government standards.
Protective Gloves:	Nitrile or rubber gloves
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
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	272 °C (522 °F) - lit.
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.68 g/cm3 at 25 °C (77 °F) - lit.
Molecular weight:	149.91 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, Acids, Water, Corrosive to glass
Incompatible Conditions:	Moisture, Strong oxidizing agents
Hazardous Decomposition Products:	Cesium oxides
Hazardous Decomposition Froducts:	Cestum varies
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious damage
Skin:	Causes severe burns
Ingestion:	Harmful if swallowed
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	Cough, Shortness of breath, Headache, Nausea, Vomiting
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatia Taviait:	
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	N/A

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

14. Transportation Data

Hazardous: Hazardous as powder only



Hazard Class: 8 Corrosives

Packing Group:

UN Number: UN2682

Proper Shipping Name: Cesium Hydroxide

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 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 mandatory regulations mentioned aim to help the user fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 07/26/2024 RESERVING