

## LTS Research Laboratories, Inc. Safety Data Sheet Chromium Chloride Hexahydrate

## 1. Product and Company Identification

Trade Name: Chromium Chloride Hexahydrate

Chemical Formula: CrCl<sub>3</sub>.6H<sub>2</sub>O

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 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: H290: May be corrosive to metals

H302: Harmful if swallowed

H317: May cause an allergic skin reaction

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements: P234: Keep only in original container

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray P264: Wash face, hands and any exposed skin thoroughly after

handling

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

P272: Contaminated work clothing must not be allowed out of the

workplace

P273: Avoid release to the environment

P280: Wear protective gloves

P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/

doctor if you feel unwell. Rinse mouth

P302 + P352: IF ON SKIN: Wash with plenty of soap and water P333 + P313: If skin irritation or rash occurs: Get medical advice/

attention

P363: Wash contaminated clothing before reuse P390: Absorb spillage to prevent material damage

P391: Collect spillage

P406: Store in corrosive resistant container with a resistant inner

liner

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Hydrates

Additional Names: Chromium trichloride hexahydrate, Hexaaquachromium(III) chloride

Chromium (III) Chloride Hexahydrate (CrCl<sub>3</sub>.6H<sub>2</sub>O):

Percentage: 100 wt% CAS No: 10060-12-5 EC No: 233-038-3

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: N/A

Inhalation: Remove 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 affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical

attention.

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires –

use CO<sub>2</sub>, sand, 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 spill using a high efficiency particulate absolute (HEPA) air filter and place 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:** Wash thoroughly after handling.

**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

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.5 mg/m<sup>3</sup> as Chromium (III) Chloride Hexahydrate, long-term value

Threshold Limit Value: 0.5 mg/m<sup>3</sup> as Chromium (III) Chloride Hexahydrate, long-term value

**Special Equipment:** None

**Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves

Check gloves prior to each use

Safety glasses or goggles Eye Protection:

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Dark green

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

Odorless Odor:

Redearch Water Solubility: Soluble ratorias, Inc.

**Boiling Point:** N/A 83 °C Melting Point: Flash Point: N/A

Autoignition Temperature: N/A Density:  $1.835 \text{ g/cm}^3$ 

Molecular weight: 266.44 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

**Incompatible Conditions:** Excess heat. Avoid dust formation. Exposure to moist air or water.

Hazardous Decomposition Products: Hydrogen chloride gas

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause an allergic skin reaction

Harmful if swallowed Ingestion: Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A Aggravated Medical Conditions: N/A

Median Lethal Dose: 1790 mg/kg for rat by mouth

Carcinogen: N/A 12. Ecological Information

Aquatic Toxicity: High with long-lasting effects

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
Packing Group: III
UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Chromium trichloride

hexahydrate)

15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
N/A
Sec 313 Toxic Chemicals:
Yes

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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