

LTS Research Laboratories, Inc. Safety Data Sheet Calcium Chromate

1. Product and Company Identification

Trade Name: Calcium Chromate

Chemical Formula: CaCrO₄

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: H272: May intensify a fire; oxidizer.

H302: Harmful if swallowed. H350: May cause cancer.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P210: Keep away from heat/sparks/open flames/hot surfaces - No

smoking

P220: Keep/Store away from clothing/.../combustible materials P221: Take any precaution to avoid mixing with combustibles

P264: Wash skin thoroughly after handling.

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

P273: Avoid release to the environment.

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.

P308+P313: IF exposed or concerned: Get medical advice/ attention.

P391: Collect spillage. P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 2

3. Composition Chemical Family: Nonmetal Additional Names: Calcium Chromium oxide Calcium Chromate (CaCrO₄): Percentage: 100 wt% CAS #: 13765-19-0 EC #: 237-366-8 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. Keep patient warm. Seek immediate medical attention. Ingestion: Seek immediate medical attention. Immediately wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Seek immediate medical attention. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention. 5. Firefighting Measures Non-flammable, except as powder Flammability: - Research 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. Keep unprotected persons away. 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.

Isolate runoff to prevent environmental pollution.

Environmental Precautions:

7. Handling and Storage

Handling Conditions: Avoid contact with skin and eyes. Wash thoroughly after handling.

Open and handle container with care.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store away from

flammable substances, reducing agents, organic materials, metal powders, oxidizing agents. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Substance/product can reduce the ignition temperature of flammable substances. 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: 0.005 mg/m³ as Cr, long-term value Threshold Limit Value: 0.01 mg/m³ as Cr, long-term value

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

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

sleeves/pants. Research

9. Physical and Chemical Characteristics

Color Yellow

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

Odor: N/A Water Solubility: 163 g/L **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: 3.12 g/cc 156.07 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, reducing agents, flammable substances, organic

materials, metal powders, azides, aluminum, hydrogen peroxide,

hydrazine, magnesium

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, calcium oxide, chromium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: Harmful if swallowed
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: Exposure to chromate salts has been reported to produce skin and nasal

ulcerations with continued exposure leading to perforation of the nasal

septa.

Aggravated Medical Conditions: N/A

Median Lethal Dose: 327 mg/kg for rat by mouth

Carcinogen: May cause cancer

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity

ACGIH A2: Suspected human carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans. NTP-K: Known to be carcinogenic: sufficient evidence from human

studies.

OSHA: OSHA specifically regulated carcinogen (calcium chromate)

12. Ecological Information

Aquatic Toxicity:

ation Toxicity: N/A

Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A

Notes: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

pretories, Inc.

Do not allow product to reach ground water, water course or sewage

system, even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

Poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 5.1 Oxidizing solid Secondary Class: 6.1 Toxic substance

Packing Group: III UN Number: UN3087

Proper Shipping Name: Oxidizing solid, toxic, n.o.s. (Calcium chromate)

15. Regulatory Information

Sec 302 Extremely Hazardous: No
Sec 304 Reportable Quantities: 10 lbs
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.

Document Last Revised: 10/04/2018