1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Calcium Chromate

Chemical Formula: $CaCrO_4$

Manufacturer Item Number: CA-1090

Manufacturer:
Lorad Chemical Corporation
1200 19th Street North
Saint Petersburg, Florida, 33713
United States of America

Telephone: +1 (727) 826–5511

Fax: +1 (727) 826–5510

Emergency Contact:
(800) 255–3924 (US & Canada)
+1 (813) 248–0573 (International)

2. HAZARD IDENTIFICATION

Hazard Classification
Oxidizing solids (Category 2)
Acute oral toxicity (Category 4)
Carcinogenicity (Category 1A)

Signal Word: Danger

Pictograms:



Hazard Statements:

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H350 May cause cancer.

Precautionary Statements:

Prevention

P203 Obtain, read, and follow all safety instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P220 Keep and store away from clothing and other combustible materials.
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves, clothing, eye protection, and face protection.

Response

P301+317 IF SWALLOWED: Get medical help.
P318 If exposed or concerned, get medical advice.
P330 Rinse mouth.
P370+378 In case of fire: Use Use CO2, dry chemical, or foam to extinguish.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents / container to an approved waste disposal plant.

Other Hazards Very toxic to aquatic life with long lasting effects.

3. COMPOSITION

Additional Names: Calcium Chromate(VI), Calcium Chrome Yellow, Calcium Chromium Oxide

Percentage:	**Component**	**Classification**	**Concentration**
	Calcium Chromate	Oxid. Sol. 2, H272; Acute Tox. 4, H302; Carc. 1A, H350	100% wt

CAS #: 13765-19-0

EC #: 237-366-8

4. FIRST AID PROCEDURES

General Treatment Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.

Special Treatment: No Data Available.

Important Symptoms: No Data Available.

Inhalation: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Avoid vomiting. Do not attempt to neutralize. Consult a physician.

Skin: For skin contact, flush with large amounts of soap and water while removing contaminated clothing. Consult a physician.

Eyes: Immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Consult a physician.

5. FIREFIGHTING MEASURES

Special Hazards from Substance: If this material is involved in a fire, the following may be released:
Calcium oxides
Chromium oxides

Contact with combustible/organic material may cause fire. May ignite combustibles such as wood, paper, oil, clothing, etc.

Extinguishing Media: Use alcohol-resistant foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled: Use appropriate personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Isolate spill area and provide ventilation. Pick up and arrange dispose without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Environmental Precautions: Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses.

7. HANDLING AND STORAGE

Handling Conditions: Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion or inhalation. Avoid dust formation. Keep away from clothing and other combustible materials.

Storage Conditions: Protect from moisture. Keep container tightly closed in a dry, cool, and well-ventilated place. Do not store near combustible materials, incompatible materials, or strong reducing agents.

Work / Hygienic Maintenance: Handle in accordance with good industrial hygiene and safety procedures. Do not use tobacco or food in the work area. Wash thoroughly before eating, drinking, or smoking.

Ventilation: Ensure good ventilation / exhaust in any work areas.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:

Authority	Basis	Limit	Remarks
OSHA	PEL	5.0 $\mu g/m^3$	8-hour time weighted average for Cr(VI) compounds.
NIOSH	REL	0.2 $\mu g/m^3$	Recommended 8-hour time weighted average for Cr(VI) compounds.
NIOSH	REL	1.0 $\mu g/m^3$	15-minute short term exposure limit for Cr(VI) compounds.

Threshold Limit Value:

Authority	Basis	Limit	Remarks
NIOSH	IDLH	15 mg/m^3	Immediate danger to life or health for Cr(VI).
ACGIH	TLV	0.05 mg/m^3	8-hour time weighted average for water-soluble Cr(VI) compounds
EU (Directive 2004/37/EC / CMD as amended)	OEL	5.0 $\mu g/m^3$	After 17 Jan 2025, binding limit for Cr(VI) compounds. (lowest general limit with no process derogations) (some EU member states have adopted stricter standards)

References:

PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
TWA	Time Weighted Average
IDLH	Immediately Dangerous to Life or Health
TLV	Threshold Limit Value

Special Equipment: Handle in accordance with good industrial hygiene and safety practices.

Respiratory Protection: Where protective from nuisance levels of dust are desired, use type N95 / P95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective Gloves: Handle with gloves. Gloves must be inspected prior to use. use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body Protection: Chemical-resistant protective clothing (e.g. disposal Type 5/6 coveralls or equivalent). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	Yellow	**Molecular Weight:**	156.07 g/mol
Forms:	Powder	**Theoretical Density:**	~3.2 g/cm^3 (20°C)
Odor:	Odorless	**pH:**	~8-9 (aqueous suspension)
Water Solubility:	Slightly soluble in water	**Auto-Ignition Temperature:**	Not Applicable.
Boiling Point:	Not Applicable, decomposes.	**Evaporation Rate:**	Not Applicable. (Solid, non-volatile)
Melting Point / Freezing Point:	>1,000°C (>1,832°F) (decomposes)	**Flammability or Explosive Limits:**	Not Applicable.
Vapor Pressure:	Not Applicable.	**Partition Coefficient: n-octanol/ water**	Not Applicable.
Vapor Density:	Not Applicable.	**Decomposition Temperature:**	>1,000°C (>1,832°F)
Flash Point:	Not Applicable.	**Viscosity:**	Not Applicable (solid).

10. REACTIVITY

Stability:	Stable under normal ambient conditions of storage and use.
Reacts with:	Reducing agents, organic materials, combustible substances, finely divided metals, sulfides, phosphides, hydrazine, and strong acids.
Incompatible Conditions:	Avoid excessive heat, contamination with combustible materials, and exposure to strong acids or reducing environments.
Hazardous Decomposition Products:	Thermal decomposition may produce chromium oxides, calcium oxide, and oxygen-containing chromium fumes.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Eyes:	No Data Available.
	Skin:	No Data Available.
	Ingestion:	Harmful if swallowed.
	Inhalation:	Harmful if inhaled; prolonged or repeated exposure may cause serious health effects.
Chronic Toxicity	Skin Corrosion / Irritation:	No Data Available.
	Serious Eye Damage / Irritation:	No Data Available.
	Respiratory / Skin Sensitization:	No Data Available.
	Mutagenic Effects:	No Data Available.
	Reproductive / Teratogenic Effects:	No Data Available.
	Specific Target Organ Toxicity: (single exposure)	No Data Available.
	Specific Target Organ Toxicity: (repeated exposure)	No Data Available.

	Aspiration Hazard:	No Data Available.
	Other Adverse Effects:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Carcinogenicity:	IARC:	Calcium Chromate is identified as a Group 1 confirmed human carcinogen by IARC.
	ACGIH:	Calcium Chromate is identified as a Group A1 confirmed known human carcinogen by ACGIH.
	NTP:	Calcium Chromate is identified as a known human carcinogen by NTP.
	OSHA:	Calcium Chromate contains hexavalent chromium, a compound identified as a human carcinogen by OSHA.
	EU:	Hexavalent chromium compounds are classified as Carcinogen Category 1A under EU legislation.

Additional Information: No Data Available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: No applicable to inorganic substances.

Bioaccumulative potential: No Data Available.

Notes: No Data Available.

13. DISPOSAL CONSIDERATIONS

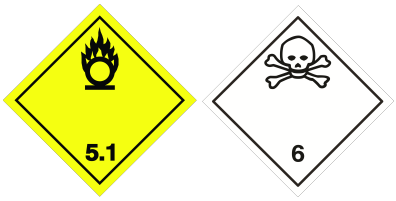
Disposal: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriate waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.

EU Disposal: Disposal must comply with Directive 2008/98/EC (Waste Framework Directive) and local regulations.

14. TRANSPORTATION DATA

Hazardous:
DoT: Hazardous for Transportation
IMDG: Hazardous for Transportation
IATA: Hazardous for Transportation

Pictogram:



Hazard Class: 5.1, 6.1

Packing Group: III

UN Number: UN3087

US DoT **Proper Name:** Oxidizing solid, toxic, n.o.s. (Calcium Chromate)

	Marine Pollutant:	Yes
IMDG	**Proper Name:**	Oxidizing solid, toxic, n.o.s. (Calcium Chromate)
	EMS-No:	F-A, S-Q
	Marine Pollutant:	Yes
IATA	**Proper Name:**	OXIDIZING SOLID, TOXIC, N.O.S. (Calcium Chromate)

15. REGULATORY INFORMATION

Toxic Substance Control Act	Listed.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA title III, Section 302.
SARA 313 Components	This material contains chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313: - Calcium Chromate (CAS No. 13765-19-0) (due to hexavalent chromium)
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
CERCLA	Chromium compounds have a reportable quantity: 5,000 lbs
Massachusetts Right to Know Components	Components are subject to the Massachusetts Right to Know Act: - Chromium and Chromium compounds, including hexavalent chromium compounds
Pennsylvania Right to Know Components	Components are listed in Appendix A of the Pennsylvania Worker and Community Right to Know Act: - Chromium compounds and Chromium(VI) compounds
New Jersey Right to Know Components	Components are listed on the New Jersey Right to Know Hazardous Substance List: - Chromium compounds and Chromium(VI) compounds
California Prop. 65 Components	This product contains hexavalent chromium, which is known to the State of California to cause cancer, birth defects, or any other reproductive harm.
EU Regulations	This substance is classified according to Regulation (EC) No 1272/2008 (CLP). This product contains hexavalent chromium and is subject to authorization under REACH Regulation (EC) No 1907/2006, Annex XIV. EU occupational exposure limits for hexavalent chromium apply under Directive 2004/37/EC (Carcinogens and Mutagens Directive), as amended. Hexavalent chromium compounds are identified as substances of very high concern (SVHC). This substance may be subject to restrictions under REACH Regulation (EC) No 1907/2006, Annex XVII, depending on use.

16. OTHER INFORMATION

This Safety Data Sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP).

Copyright 2025 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. The information in this sheet does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates make no warranty with respect to the accuracy of the information or the suitability of this product for any particular application, and shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Date: 12/22/2025