

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **CHROMIUM III ACETATE HYDROXIDE - CXCR012**

CHEMICAL NAME: CHROMIUM III ACETATE HYDROXIDE

SYNONYMS: CHROMIUM III HYDROXY ACETATE

CHEMICAL FAMILY: CHROMIUM COMPOUND

FORMULA: $(\text{CH}_3\text{COO})_7(\text{OH})_2\text{Cr}$

HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
CHROMIUM III ACETATE HYDROXIDE	39430-51-8	95	not established
(OSHA PEL for chromium: $0.5\text{mg}(\text{Cr}^{+3})/\text{m}^3$)			

PHYSICAL DATA

Boiling Point: not determined

Specific Gravity: >1

Vapor Density: NA

% volatiles: <2

Molecular Weight: 603.32

Appearance & Color: dark blue-green powder

Melting Point: not determined

Vapor Pressure: not determined

Solubility in water: soluble

Evaporation rate: NA

Bulk Density: 0.35-0.45 g/cc

FIRE & EXPLOSION DATA

Flash Point, COC: >110°C (>230°F) Autoignition Temp.: not determined

Flammability Limits: NA

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

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ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. If dissolved in water, precipitate as sulfide. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract.

Oral Toxicity: not determined

Chronic Toxicity: No data available. The related compound, chromic acetate, is an experimental tumorigen and suspected carcinogen.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Store away from oxidizers.

Hazardous decomposition products: Organic acid vapors and chromium oxide fumes.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds PEL, NIOSH approved dust and mist respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs ISSUE DATE CXCR012: 12/27/04
SUPERSEDES: 3/27/03

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