

Manufacturer: Strem Chemicals, Inc
 7 Mulliken Way
 Newburyport, MA 01950-4098 U.S.A.
 www.strem.com

Strem Customer Service (978) 499-1600
 CHEMTREC (Emergency Only) (800) 424-9300
 Poison Center (800) 562-8236

Section 1: Product Identification

Chemical Name: Copper chromite, barium promoted (62-64% Cr₂CuO₄, 22-24% CuO, 6% BaO, 0-4% Graphite, 1% CrO₃), 1% Cr₂O₃)
 Product Number: 29-0410
 CAS Registry Number: 12018-10-9
 Formula: CuO/Cr₂CuO₄
 EINECS Number: 235-000-1
 Chemical Family: inorganic compound
 Synonym: Chromium copper oxide, barium promoted

Section 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Copper chromite	12018-10-9	62%	0.5 mg/m ³ (as Cr)	0.1 mg/m ³ (as CrO ₃)
copper oxide	1317-38-0	23%	1 mg/m ³ (as Cu)	1 mg/m ³ (as Cu)
barium oxide	1304-28-5	6%	0.5mg/m ³ (as Ba)	0.5mg/m ³ (as Ba)

Section 3: Hazards Identification

Emergency Overview: Irritating to the skin, eyes and respiratory tract. May cause cancer.
 Primary Routes of Exposure: Ingestion, inhalation
 Eye Contact: Causes slight to mild irritation of the eyes.
 Skin Contact: Causes slight to mild irritation of the skin.
 Inhalation: Inhalation of dust can cause difficulty in breathing and tightness of the muscles of the face and neck.
 Ingestion: Ingestion may lead to vomiting, exhaustion, anemia, irregular heartbeat, pain, convulsions, coma, and cardiac arrest.
 Acute Health Affects: Irritating to skin, eyes and respiratory tract.
 Chronic Health Affects: The dust of copper compounds may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas. May cause cancer.
 NTP: yes
 IARC: No
 OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
 Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
 Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
 Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.



MATERIAL SAFETY DATA SHEET

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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: none required
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self- contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: If involved in a fire this material may emit toxic fumes.
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store in a cool, dry place in a tightly sealed container.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator: If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: black pellets
Molecular Weight: 79.55/231.53
Melting Point: no data
Boiling Point: no data
Vapor Pressure: not applicable
Specific Gravity: no data
Odor: none
Solubility in Water: Insoluble

SECTION 10: Stability and Reactivity

Stability: air and moisture stable
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: none
Incompatibility: none
Decomposition Products: copper oxide, chromium oxide, barium oxide

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SECTION 11: Toxicological Information

RTECS Data: Copper chromite: No information available in the RTECS files. Copper oxide: Oral(rat); LD50: 470mg/kg. Intraperitoneal(mouse); LD50: 273mg/kg. Intraperitoneal(mouse); TDLo: 45.4mg/kg. Intratracheal(rat); LD50: 250mg/kg. Intratracheal(rat); LDLo: 278mg/kg. Intratracheal(rat); TDLo: 100ug/kg. Inhalation(guinea pig); TCLo: 1.6mg/m3. Barium oxide: Intraperitoneal(mouse); LD50: 146mg/kg. Subcutaneous(mouse); LD50: 50mg/kg.

Carcinogenic Effects: no data
Mutagenic Effects: No data
Tetratogenic Effects: No data

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous
Hazard Class (CFR): NA
Additional Hazard Class (CFR): NA
Packaging Group (CFR): NA
UN ID Number (CFR): NA
Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory.
SARA (Title 313): Title compound: See category N100, N090 and N040 for reporting.
Second Ingredient: Listed in TSCA inventory. Regulated under section 313
Third Ingredient: Listed in TSCA inventory. Regulated under section 313.

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.

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