

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Chromium (VI) oxide
CAS #: 1333-82-0
FORMULA: CrO₃
SYNONYM: Chromic anhydride, Chromium trioxide, chromia

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	1333-82-0	100	0.05mg/m ³ (as Cr(IV)-soluble)	0.1mg/10m ³ (ceiling limit)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Toxic by inhalation, in contact with skin and if swallowed. Corrosive to skin, eyes, mucous membrane of nose and mouth. May cause cancer by inhalation and heritable genetic damage.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin

EYE CONTACT: Causes severe burning of the eyes

SKIN CONTACT: Causes severe burns of the skin. Toxic through skin contact.

INHALATION: Toxic through inhalation. Causes inflammation and ulceration of the respiratory tract.

INGESTION: Toxic through ingestion. Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, shock, and convulsions.

CHRONIC HEALTH EFFECTS: Cancer hazard. May cause cancer through inhalation. May cause heritable genetic damage. May cause dermatitis, ulceration of the respiratory tract, acute hepatitis, kidney damage, and conjunctivitis.

ACUTE HEALTH EFFECTS: Toxic by inhalation, in contact with skin and if swallowed. Corrosive to skin, eyes, and respiratory system and when ingested

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash 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 assistance immediately. Keep the victim calm. Give the victim water (only if

conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: material is non flammable

SPECIAL FIREFIGHTING PROCEDURES: If 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: none

UNUSUAL FIRE OR EXPLOSION HAZARDS: The product can act as an oxidizer towards combustibles.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up. Do not mix with combustibles.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container in a cool dry place.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and 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 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: red xtl.

MOLECULAR WEIGHT: 99.99

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: no data

SPECIFIC GRAVITY: 2.7

SOLUBILITY IN WATER: very soluble

SECTION 10 Stability and Reactivity

STABILITY: moisture sensitive solid

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: Do not mix or heat with combustible materials.

INCOMPATIBILITY: reducing agents, organic matter, phosphorus, sulfur, active metals and halogens.
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Inhalation (human); TClO:110 ug/m³. Oral (rat); LD50:80 mg/kg. Administration onto the skin (rat); LDLo:55 mg/kg. Intraperitoneal (rat); LD50:58400 ug/kg. Intravenous (rat); LD50:9260 ug/kg. Oral (mouse); LD50:127 mg/kg. Intraperitoneal (mouse LD50:14 mg/kg. Subcutaneous (mouse); LDLo:20 mg/kg. Intravenous (mouse); LD50:17100 ug/kg. Inhalation (rat); TClO:29 ug/m³/20H/90D-1. Inhalation (human); TClO: 11 0 ug/m³/3Y - C. Inhalation (mouse); TClO:3480 ug/m³/2H/1Y -I. Intravenous (hamster TDLo:5 mg/kg. Human Fibroblast; Morphological transformation: 100 nmol/L. Human Leukocyte; Cytogenetic analysis:2 mg/L.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Chromium trioxide, anhydrous, Class 5.1, UN 1463, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N090 for reporting.

SECTION 16 Other Information

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

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