

Material Safety Data Sheet

Section 1: Company and Product Identification



Manufactured by:
Columbus Chemical Industries, Inc.
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(866) 260-0501

Product Name Chromium Metal

Product No. 9409804

CAS 7440-47-3

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300

HAZARD RATING	
4- EXTREME	HEALTH 1
3- SEVERE	
2- MODERATE	FLAMMABILITY 0
1- SLIGHT	
0- MINIMAL	REACTIVITY 0

Material Uses Not available.

Synonyms Not available.

Formula Cr

Section 2: Hazardous Ingredients

Product Name	CAS	Conc (%)	PIN
Chromium Metal*	7440-47-3	>99	N/A

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

* Chemical subject to the reporting of SARA Title III.

Section 3: Physical Data

Appearance	Solid. (Metal solid.)	Odor Threshold	Not available.
Color	Silvery.	Vapor Pressure	Not available.
Odor	Odorless.	Evaporation Rate (Reference solvent)	Not available.
Specific Gravity (Water = 1)	7.14 (Water = 1)	Vapor Density (Air = 1)	Not available.
Melting Point	1899.9°C (3451.8°F)	Percent Volatile by Volume	Not available.
Boiling Point	2641.9°C (4787.4°F)	pH (1% water soln)	Not applicable.
Water/Oil Dist. Coeff.	Not available.	Solubility	Insoluble in cold water, hot water.

Section 4: Fire and Explosion Hazard Data

Flash Point (Methods)	Not available.	Autoignition Temp.	Not available.
Flammable Limits in Air by Volume	Not available.		
Flammability	Not available.		

Explosion Hazard Not available.

Haz. Comb. Prod. Some metallic oxides.

Means of Extinction Use dry chemical powder.

Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual Fire and Explosion Hazards

Not available.

Section 5: Health Hazard Data

Exposure Limits (P.E.L., TLV, etc.) ACGIH TLV (United States, 2001). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. 1994-1995 Adoption Refers to Appendix A - Carcinogens. TWA: 0.5 mg/m³ Form: Inorganic TWA: 0.01 mg/m³ Form: Insoluble TWA: 0.05 mg/m³ Form: Soluble United States, 2001). OSHA PEL 1988 (United States, 1988) TWA: 1 mg/m³

Acute Effects Slightly hazardous in case of skin contact (irritant), of eye contact (irritant).

Routes of Entry Ingestion. Inhalation. LD50/LC50 LD50: Not available. LC50: Not available.

Effects of Overexposure

Repeated or prolonged exposure is not known to aggravate medical condition.

Emergency and First Aid Procedures

SKIN: Wash contaminated skin with soap and water. **EYES:** Flush with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. **INHALATION:** Move exposed person to fresh air. If irritation persists, get medical attention. **INGESTION:** Do not induce vomiting. If affected person is conscious, give plenty of water to drink. Seek medical attention.

Section 6: Reactivity Data

Stability The product is stable. **Instability Temp.** Not available.

Incompatibility Reactive with oxidizing agents, acids.

Degradation Prod. Some metallic oxides. **Hazardous polymerization?** Will not occur.

Materials to Avoid Not available.

Section 7: Spill or Leak Procedures

Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 8: Protection Equipment Information

Equipment Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Appropriate chemical-resistant gloves.

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4).

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quandt Effective Date Printed 1/28/2003

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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