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MSDS OF Chromium Metal

SECTION 1 – CHEMICAL PRODUCT

PRODUCT/MATERIAL: CR-102-104-105-110-115-120

COMMON NAME: Chromium Metal

SECTION 2 – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>CAS No.</u>	<u>Significant Ingredients</u>	<u>% (optional)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
7440-47-3	Chromium – Cr *	> 99	1 mg/m ³	0.5 mg/m ³

* These chemicals are listed as EPCRA Section 313 chemicals and are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

SECTION 3 – PHYSICAL / CHEMICAL DATA

Boiling Point: 2672 °C
Melting Point: 1850 °C
Specific Gravity: 7.2
Vapor Pressure: 1 mmHg @ 1616 °C
Vapor Density: N/A
Evaporation Rate: N/A
Solubility in Water: Insoluble
Appearance and Odor: Silver metallic appearance, no odor

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A
Flammable Limits: N/A
LEL: N/A
UEL: N/A
Extinguishing Media: Dry sand, water fog, or CO₂

Special Fire Fighting Procedures: Lump material does not have fire or explosive tendencies. Extremely fine material can, with great difficulty, be ignited, but only weakly propagates combustion. Do not disturb burning metal while extinguishing the fire. Interrupt metal path and allow the fire to burn out.

Unusual Fire and Explosion Hazards: None

SECTION 5 – REACTIVITY DATA

Stability: Stable at normal temperatures and pressure.

Materials to Avoid: Avoid contact with strong acids such as HCl, HNO₃, H₂SO₄.

Conditions to Avoid: Grinding, crushing or melting may produce dust and fumes, which may require controls.

Hazardous Decomposition: None

Hazardous Polymerization: Will not occur.

SECTION 6 – HEALTH HAZARD DATA

Route(s) of Entry

Inhalation: Yes

Skin: No

Ingestion: Yes

Acute: Eye and throat irritation. Eye contact may cause mechanical irritation.

Chronic: The American Conference of Governmental Industrial Hygienists (ACGIH) has reviewed the available data and concluded that Chromium Metal is not carcinogenic to humans.

Carcinogenicity

NTP: No

IARC Monographs: No

OSHA Regulated: No

Signs & Symptoms of Exposure: Change in pulmonary function, change in X-rays.

Medical Conditions: May cause lung disorders.

First Aid Procedures: Move to well-ventilated area. Flush eyes with water.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING & USE

Steps to Be Taken in Case Material Is Released or Spilled: Fine material should be swept up. Avoid compressed air to remove fine material. No problem associated with cleanup of lump material. Gloves should be worn to avoid cuts and abrasions when handling lump material.

Waste Disposal Method: Dispose of in accordance with applicable federal, state and local regulations.

**Precautions to Be Taken
In Handling & Storing:**

Normal safe handling practices and procedures. Labels in accordance with OSHA (29CFR1910.1200) should be displayed.

Other Precautions:

This product contains Chromium in the metallic state. It must be identified under OSHA (29CFR1919.1200) as possible carcinogens and irritations.

SECTION 8 – CONTROL MEASURES

Respiratory Protection:

NIOSH approved respirators

Protective Gloves:

Standard hand protection

Ventilation (General):

Needed if crushing or grinding

Eye Protection:

Safety goggles

Work / Hygienic Practices:

Use with adequate ventilation and approved PPE.

Other Protective Clothing or Equipment:

Standard foot protection against cuts and bruises.

SECTION 9 – OTHER INFORMATION

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