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International Advanced Materials

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Material Data Safety Sheet

Quick Identifier: Chromium

I. PRODUCT IDENTIFICATION

Trade Name: Chromium Formula: Cr

Synonyms: Molecular Weight:

CAS #:

II. HAZARDOUS INGREDIENTS

<u>Hazardous Components:</u> <u>OSHA PEL:</u> <u>ACGIH TLV:</u> <u>Other Limits:</u>

Chromium None 5mg/m3 **None**

Sec. 302 (EHS): No Sec. 304 RQ: No Sec. 313: No HMIS Ratings (0-4): Health: N/A Flammability: N/A Reactivity: N/A

HMIS Protective Equipment: N/A

III. PHYSICAL DATA

Boiling Point: 2672 C **Melting Point**: 1857 +- 20

Specific Gravity (H2O=1):7.2Vapor Density (Air=1):N/AVapor Pressure (mm Hg):N/AEvaporation Rate:N/A% Volatiles by Volume:N/ASolubility in H2O:Insoluble

Appearance and Odor: Steel Gray-no odor

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point/Method: None

Explosive Limits: **LEL**: N/A **UEL**: N/A

Extinguishing Media: Non-combustible. Use extinguishing media appropriate to

surroundings.

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: Not Known

V. HEALTH HAZARD INFORMATION

Routes of Entry: Inhalation, Skin and Eyes, Ingestion

Target Organs: N/a

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

LD50/LC50: No toxicity data recorded.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: N/A

Chronic: Dust may cause mild irritation to nose and throat

Ingestion:

Acute: N/A

Chronic: Dust may cause mild irritation to nose and throat

Skin:

Acute: N/A

Chronic: Dust may cause irritation to the skin.

Eye:

Acute: N/A

Chronic: Dust may cause irritation to the eye

Signs and Symptoms of Exposures:

Inhalation: Irritation to nose or throat.
Ingestion: Irritation to nose or throat
Skin: Irritation to the skin
Eye: Irritation to the eyes.

Medical Conditions Generally Exposure to chromium dust or fume may aggravate chronic

Aggravated by Exposure: respiratory.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from exposure and seek medical attention.

INGESTION: Dilute with large amount of water, induce vomiting, seek medical attention.

SKIN: Thoroughly wash affected area with mild soap and water.

EYE: Flush with copious amounts of clean water. If irritation persists, seek medical attention.

VI. REACTIVITY DATA

Stability: Stable

Incompatibility (Material to avoid): Chromium is soluble in Di1 H2So4, HCL

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material

Vacuum the area and use NIOSH approved respirator.

Is Released or Spilled:

Waste Disposal Method: According to appropriate government.

Hazard Label Information: Wash thoroughly after handling and before eating or smoking and at end

of shift

Precautions to Be Taken in Handling

Do not shake clothing to remove dust. Use a vacuum.

and Storing:

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH approved dust and fume mask.

Ventilation: Local Exhaust: Use

Mechanical (General): If not available, use respirators as specified above

Protective Gloves: Recommended when contact is likely.

Eye Protection: Safety glasses are recommended when contact is likely.

Other Protective Clothing or

Equipment:

No other suggested

Work/Hygienic/Maintenance Normal hygienic practices.

Practices:

IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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