

MATERIAL SAFETY DATA SHEET



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For Additional Information call  
1-800-553-0111 or 1-216-694-5300  
Emergency Number:  
Chemtrec 1-800-424-9300

Section 1 - Product:

Product Name: CHARGE CHROMIUM, LOW CARBON FERROCHROMIUM,  
HIGH CARBON FERROCHROMIUM  
Formula: FeCr  
Generic Term: Ferrochromium

Section 2 - Physical Data:

Form: Product is in lump or granule form and may contain less than 10% under the bottom specified size. Product may be sized under 6" to under 0.12".  
Solubility: Product is insoluble in water.  
Reactivity: Product will not react with water.

Section 3 - Composition:

Typical Analysis (Wt % Range)  
Chromium 50-72%  
Carbon <.1- 7.5%  
Silicon <.1- 5%  
Iron Balance Typical

Section 4 - Hazards:

Part A - Air Contaminants

No permissible exposure limits or threshold limit values are known for charge chromium. Values for ingredients in the product may be appropriate.

<u>Ingredient</u>	<u>PEL*</u>	<u>TLV**</u>
Chromium	1	.5
Silicon	15	10

\*Permissible Exposure Limit (mg/m<sup>3</sup>) OSHA 29 CFR1910

\*\*Threshold Limit Value (mg/m<sup>3</sup>) American Conference of Governmental Industrial Hygienists.

Part B - Short Term Exposure

Charge chrome is a low toxicity in lump form. Overexposure to dusts may irritate eye, nose or throat.

Part C - Long Term Exposure

Long term exposure to dust or to fumes of charge chrome emitted from the melting of charge chrome may cause adverse effects.

Other Precautions: These products contain chromium in the metallic state. The International Agency for Research on cancer has determined that chromium and certain compounds are "casually associated with cancer in humans" but "the compounds responsible for the carcinogenic effect in humans cannot be specified." This requires that chromium in all forms be identified as carcinogenic under OSHA (29 CFR1910.1200). The American Conference of Governmental Industrial Hygienists has reviewed the available data and concluded that chromium metal is not carcinogenic to humans.

THERE IS NO DATA TO INDICATE THAT CHARGE CHROME IS A CARCINOGEN.

#### Part D - Fire Hazard

When suspended in air, fine sized charge chrome could be ignited and would weakly propagate a flame. Lump or granule charge chrome is not flammable.

#### Section 5 - Precautions:

- A. Atmosphere  
Avoid generation of dust and collect fumes emitted by melting of charge chrome in compliance with OSHA regulations.
- B. Spill and Leak Information  
Fine material should be swept or vacuumed. Spill or leak of lump material presents no hazard. Disposal should be in accordance with regulations that apply.
- C. Employee  
Respirators, that are NIOSH approved in accordance 29 CFR1910.134, are necessary when exposure limits must be exceeded due to inadequate ventilation. Industrial Hygiene monitoring is required to establish exposure levels.

Charge chrome may have sharp edges, therefore, protective gloves are recommended for handling.

Eye protection should conform with local safety regulations.

#### REFERENCES:

1. OSHA (29 CFR 1910) Department of Labor
2. Documentation of the Threshold Limit Values, Fourth Edition, 1980...
3. Third Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Commerce

#### IMPORTANT NOTICE:

This information relates only to the specific product or material designated and may not be valid for such product or material used in combination with any other materials or products or any process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and completeness of such information and the suitability of the materials for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.