Kurt J. Lesker Company

Chromium metal, pieces

Manufacturer MSDS Number: Cr

SECTION 1: Chemical Product and Company Identification

MSDS Name: Chromium metal, pieces
Manufacturer Name: Kurt J. Lesker Company
Address:
P.O. Box 10
1925 Route 51
Clairton, PA 15025

For emergencies in the US, call CHEMTREC: 800-424-9300
Other Phone: US National Poison Hotline: (800)222-1222
Manufacturer MSDS Creation Date: 06/22/2006
Manufacturer MSDS Revision Date: 06/25/2008

Synonyms:
Chromium metal, chrome
Chemical Family: Metal
Chemical Formula: Cr
Molar Weight: 51.99
DOT HAZARD LABEL: No data.
Product Codes: Cr

SECTION 2: Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>0.0-100.0%</td>
</tr>
</tbody>
</table>

RTECS
GB4200000

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>See SECTION 16 - Other Information</td>
<td>NA</td>
<td>0.0-100.0%</td>
</tr>
</tbody>
</table>

RTECS
NA

SECTION 3: Physical And Chemical Characteristics

Physical State/Appearance:
Steel gray pieces, no odor.
**SECTION 4 : Fire And Explosion Hazards**

**Flash Point**

N.A.

**Fire Extinguisher**

No data.

**Flash Point**

N.A.

**Fire Extinguisher**

No data.

**Flammable Limit**

**Upper Flammable Limit**

NA

**Lower Flammable Limit**

NA

**Auto-Ignition Temperature**

1890 deg C for pieces

**Extinguishing Media**

Not applicable. Use suitable extinguishing agent for surrounding materials and type of fire.

**Firefighters**

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

**Chromium**

Chromium reacts violently or explosively when heated with ammonium nitrate and bromine pentafluoride. Chromium has an incandescent reaction with nitrogen oxide or sulfur dioxide.

**SECTION 5 : Health Hazards**
Applies to All Ingredients.

Route of Exposure

Inhalation? Yes, Skin? No, Eyes? No, Ingestion? Yes, Other: N

Potential Health Effects

Eye Contact

May cause abrasive irritation.

Skin Contact

May cause abrasive irritation.

Inhalation

May cause a red, dry throat.

Ingestion

May cause gastrointestinal disorders.

Chronic Eye Contact

No chronic health effects recorded.

Chronic Skin Contact

No chronic health effects recorded.

Chronic Inhalation

May cause histologic fibrosis of lungs, nasal and/or lung cancer.

Chronic Ingestion

No chronic health effects recorded.

Chronic Oral

NTP? Yes, IARC Monographs? No, OSHA Regulated? No

Target Organs

May affect the respiratory system.

Symptoms

INHALATION: May cause a red, dry throat, coughing and shortness of breath. INGESTION: May cause gastritis, convulsions, asphyxia, giddiness, nausea, diarrhea and vomiting. SKIN: May cause redness and itching. EYE: May cause redness, itching and watering.

Other Potentially Injurious Effects

CARCINOGENICITY/OTHER INFORMATION: ivn-rat TDLo: 2160 ug/kg/6W-1; ETA imp-rat TDLo: 1200 ug/kg/6W; TFX; ETA orl-hrn LDLo: 71 mg/kg; GIT imp-rat TDLo: 75 mg/kg; ETA

Pre-existing respiratory disorders, pulmonary functions and asthma.

See "Section II" LD 50/LC 50: See "Carcinogenicity/Other Information"

SECTION 6 : Emergency And First Aid Procedures

Physical Health Hazard

HEALTH HAZARDS (ACUTE AND CHRONIC): CHROMIUM: Confirmed human carcinogen with experimental tumorigenic data. Human poison by ingestion with gastrointestinal effects. (Sax, Dangerous Properties of Industrial Materials)

Eye Contact

Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

Skin Contact

Remove contaminated clothing; brush material off skin; wash affected area with mild soap and water; seek medical attention if symptoms persist.

Inhalation

Remove victim to fresh air, keep warm and quiet; give oxygen if breathing is difficult and seek medical attention.

Ingestion

Give 1–2 glasses of milk or water and induce vomiting; seek medical attention immediately. Never induce vomiting or give anything by mouth to an unconscious person.

SECTION 7 : Reactivity Data
SECTION 8: Precautions For Safe Handling

Personal Protective Equipment:

Wear appropriate respiratory and protective equipment specified in section VIII—control measures. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Other Precautions:

None

HAZARD LABEL INFORMATION:

Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

Handling:

None

Storage:

None

Hygiene Practices:

WORK/HYGIENIC/MAINTENANCE PRACTICES: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Waste Disposal:

Dispose of in accordance with local, state and federal regulations. RCRA WASTE ID CODE D007

SECTION 9: Control Measures

Ventilation System:

Local exhaust ventilation may be necessary to control any air contaminants to within their PELs or TLVs during the use of this product. Good general ventilation is recommended.

Hand Protection Description:

Rubber gloves

Face Protection:

Safety glasses

Protective Clothing/Body Protection:

Protective gear suitable to prevent contamination

Respiratory Protection:

NIOSH approved respirator

NIOSH approved respirator Impervious gloves Safety glasses Clothes to prevent skin contact

Ingredient Guidelines

Ingredient: Chromium

Guideline Information: ACGIH TLV: 0.5 mg/m3; OSHA PEL: 1 mg/m3; OTHER LIMITS: NE

Ingredient: See SECTION 16—Other Information
ACGIH TLV: NA; OSHA PEL: NA; OTHER LIMITS: NA

SECTION 10: Other Information

Chromium:
Section 302
No
Section 304
Yes 5000 LB
Section 313 Toxic Release Form
Yes

See SECTION 16-Other Information:
Section 302
No
Section 304
No
Section 313 Toxic Release Form
No

\( H \)
Health Hazard: 3
Fire Hazard: 0
Reactivity: 0
Personal Protection: H

Lable Text
LABEL INFO. Move to fresh air; induce vomiting; flush with water

MSDS Revision Date
06/25/2008

Disclaimer
Kurt J. Lesker Company ("KJLC") believes the information contained in this Material Safety Data Sheet is accurate as of the "Date of Last Revision" specified. The information relates only to typical properties of the product. Do not use the information for product performance or specification purposes. The information is for use by technically skilled persons at their own risk. KJLC MAKES NO EXPRESS OR IMPLIED WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR THE INFORMATION. The information may not be valid for product use in combination with any other product or material or in any process. KJLC expressly disclaims any liability arising from any use of the product or any reliance on the information. Do not treat the information (a) as assurance that use of the product will not infringe patent or other rights or (b) as a license or grant of patent or other property rights. "KJLC" means KJLC and each of its subsidiaries.

SUPERCEDES REVISION 08/26/2002 Control of Substances Hazardous to Health Regulations EH40 Occupational Exposure Limits Maximum Exposure Limit: 0.05 mg/m3 Occupational Exposure Standard: 0.5 mg/m3 ADDITIONAL OTHER HAZARD RATINGS: Health: 3 Flammability: 0 Reactivity: 0 Special Hazard: H Minimal: 0 Slight: 1 Moderate: 2 Serious: 3 Extreme: 4

Notes:
ADDENDUM: Other Client Information

Notes:

Copyright © 1996-2009 Acto Corporation. All Rights Reserved