

# MATERIAL SAFETY DATA SHEET

## CHROMIUM

### Section I

<b>Kurt J. Lesker Company</b> 1515 Worthington Avenue Clairton, PA 15025 Ph: 412/233-4200 Fax: 412/233-4275		Emergency Phone Numbers KJLC 800/245-1656 Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms <b>Chromium</b>		Date of Last Revision 1/14/03	
Formula Cr	Chemical Family Element	Chemical Abstract No. 7440-47-3	
TSCA Listed		Calc. Molecular Wt. 51.996	

### Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Chromium	7440-47-3	100	0.5 mg/m <sup>3</sup>	1mg/m <sup>3</sup>

### Section III Physical Data

Boiling Point (0°C): 2672	Density (gmcc): 7.19
Vapor Pressure: 1	% Volatile by Volume: NA
Reaction with Water: NA	Evaporation Rate (H <sub>2</sub> O -1): NA
Solubility in Water: Insoluble	Melting Point (°C): 1900
Appearance and Odor: Steel gray, lustrous metal, with cubic structure	Other Comments:

### Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp.	Flammability non-flammable	LEI	UEI
Extinguishing Media: Dry chemical, dry sand or CO <sub>2</sub>				
Special Fire Fighting Procedures: Isolate and allow to burn itself out.				
Unusual Fire and Explosion Hazards: Non combustible in massive form. Finely divided powder may burn vigorously.				

### Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: If dusty, wear mask. Sweep up and put in sealed container.
Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.)

**Section VI Health Hazard Data**

Toxicity Data No toxicological data available but toxicity of the metal and its di- and trivalent compounds are believed to be low.		HMIS Hazard Rating Health: Flammability: Reactivity: Personal Protection:	
Route(s) of Entry	Inhalation	Skin	Ingestion
Effects of Overexposure (acute and chronic) Inhalation: Dermal/Eye Contact: Other (specify): Caution: Chromic acids and chromate salts constitute industrial hazards. Certain relatively insoluble chromium compounds are carcinogenic.			
Medical Conditions Generally Aggravated by Exposure:			
Carcinogenicity	NTP:	IARC Monographs	OSHA Regulations
Emergency and First Aid Procedures Ingestion: Induce vomiting, seek medical attention Inhalation: Remove to fresh air Skin Contact: No hazards Eye Contact: Rinse thoroughly with water			

**Section VII Reactivity Data**

Stable: X Unstable:	Conditions Contributing to Instability
Incompatibility (materials to avoid): Acids, ammonium nitrate, hydrogen peroxide, chlorates, sulfur dioxide.	
Hazardous Decomposition Products - Thermal and Other (list): NA	
Hazardous Polymerization May Occur: Will Not Occur: X	Conditions to Avoid: NA

**Section VIII Special Protective Information**

Respiratory Protection (specify type). Use Only Niosh Approved Equip. Dust mask if dusty.	
Ventilation (always maintain exposure below permissible limits) Local Exhaust: If dusty Mechanical (general): NA Special: NA	
Other: NA	Eye Protection: yes
Protective Gloves: yes	Eye Protection: yes
Other Protective Equipment/Work Practices: NA	

**Section IX Special Precautions**

Precautions to be Taken in Handling and Storing: Avoid inhaling. Store in airtight containers in a dry area.

Transportation Requirements

DOT Class:

UN Number:

IMCO Class:

Other:

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND

NA = NOT APPLICABLE