



# MATERIAL SAFETY DATA SHEET

## CHROMATE INDUSTRIAL CORPORATION®

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**FOR CHEMICAL  
EMERGENCY**

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### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** C5-A COPPER ANTI-SEIZE LUBRICANT

**DATE PREPARED:** March 10, 2009

**PART NUMBER:** 74565

**CHROMATE INDUSTRIAL CORPORATION**

**PRODUCT TYPE:** LUBRICANT

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### SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	ACGIH TLV	OSHA PEL	OTHER
DISTILLATES (PETROLEUM), <i>hydrotreated heavy naphthenic</i>	64742-52-5	30-60	5 mg/m <sup>3</sup> TWA (mist) 10mg/m <sup>3</sup> STEL (mist)	5 mg/m <sup>3</sup> TWA (mist)	None
COPPER	7440-50-8	10-30	0.2 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA fume 1 mg/m <sup>3</sup> TWA dusts/mists	None
GRAPHITE	7782-42-5	10-30	2 mg/m <sup>3</sup> TWA all forms except graphite fibers	15 mg/m <sup>3</sup> (total), 5 mg/m <sup>3</sup> (respirable)	None
DISTILLATES (PETROLEUM), <i>hydrotreated light naphthenic</i>	64742-53-6	10-30	5 mg/m <sup>3</sup> TWA (mist) 10mg/m <sup>3</sup> STEL (mist)	5 mg/m <sup>3</sup> TWA ( mist)	None
SILICA, QUARTZ	14808-60-7	1-5	0.025 mg/m <sup>3</sup> TWA respirable fraction	0.1mg/m <sup>3</sup> TWA (respirable)	None

### SECTION 3 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**HMIS: HEALTH: 1**

**FLAMMABILITY: 1**

**PHYSICAL HAZARD: 0**

**Personal Protection: See Section 8**

**Physical State:** Solid

**Color:** Copper

**Odor:** Mild petroleum

**WARNING:** *MAY CAUSE EYE AND SKIN IRRITATION.*

**Relevant Routes of Exposure:** Skin, Eyes

#### POTENTIAL HEALTH EFFECTS

**Inhalation:** This product has low volatility and is not expected to cause respiratory tract irritation during normal conditions of use. May cause respiratory tract irritation. Inhalation of copper fumes may result in metal fume fever. Symptoms include metallic taste, discoloration of skin or hair.

**Skin Contact:** Prolonged or repeated contact may cause irritation.

**Eye Contact:** Contact with eyes will cause irritation.

**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

**EXISTING CONDITIONS AGGRAVATED BY EXPOSURE:** Eye, skin, and respiratory disorders.

*See Section 11 for additional toxicological information.*

N/A — NOT APPLICABLE  
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 4 – FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. If discomfort persists seek medical attention.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms develop and persist.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Ingestion:** *DO NOT INDUCE VOMITING.* Aspiration may cause pulmonary edema and pneumonitis. Obtain medical attention.

**SECTION 5 – FIRE-FIGHTING MEASURE**

**Flash Point:** Not applicable Product is a solid.

**Burn Rate:** Approximately 14mm/2 minutes.

**Auto-ignition Temperature:** N/D

**FLAMMABLE/EXPLOSIVE LIMITS:** Lower% (LEL): N/D

Upper % (UEL): N/D

**Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

**Special Fire-Fighting Procedures:** None

**Unusual Fire or Explosion Hazards:** None

**Hazardous Combustion Products:** Oxides of carbon.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions:** No special environmental precautions required.

**Clean-Up Methods:** Scrape up as much material as possible. Clean residue with soap and water. Dispose of in accordance with local and national regulations.

**SECTION 7 – HANDLING AND STORAGE**

**Handling:** Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage:** Keep in a cool, well ventilated area.

**Incompatible Products:** Oxidizing agents.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Ensure adequate ventilation. Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

**Respiratory Protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

**Skin Protection:** Cover as much of the exposed skin area as possible with appropriate clothing.

**Eye/face Protection:** Safety goggles or safety glasses with side shields.

**See Section 2 for Exposure Limits.**

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid

**Odor:** Mild petroleum

**pH:** N/A

**Melting Point/Range:** N/A

**Vapor Density:** N/D

**Solubility in Water:** Insoluble

**VOC Content:** 13.0%; 153 grams/liter

**Color:** Copper

**Vapor Pressure:** N/D

**Boiling Point/Range:** N/A

**Specific Gravity:** 1.18

**Evaporation Rate:** N/D

**Partition Co-Efficient (n-Octanol/Water):** N/D

**SECTION 10 – STABILITY AND REACTIVITY DATA**

**STABILITY:** Stable at normal conditions.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon.  
**INCOMPATIBILITY:** Oxidizing agents.  
**CONDITIONS TO AVOID:** None known.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

HAZARDOUS COMPONENTS	CAS#	CARCINOGEN STATUS		
		NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
DISTILLATES (PETROLEUM), <i>hydrotreated heavy naphthenic</i>	64742-52-5	No	No	No
COPPER	7440-50-8	No	No	No
GRAPHITE	7782-42-5	No	No	No
DISTILLATES (PETROLEUM), <i>hydrotreated light naphthenic</i>	64742-53-6	No	Group 1	Yes
SILICA, QUARTZ	14808-60-7	Known Carcinogen	Group 1	Yes

**LITERATURE REFERENCED TARGET ORGAN & OTHER HEALTH EFFECTS**

HAZARDOUS COMPONENTS	CAS #	HEALTH EFFECTS/TARGET ORGANS
DISTILLATES (PETROLEUM), <i>hydrotreated heavy naphthenic</i>	64742-52-5	Irritant
COPPER	7440-50-8	Skin, Sensory, Mutagen, Liver, Kidney, Irritant, Immune system, Gastrointestinal, Central nervous system, Blood, Allergen, Developmental
GRAPHITE	7782-42-5	Lung
DISTILLATES (PETROLEUM), <i>hydrotreated light naphthenic</i>	64742-53-6	Irritant
SILICA, QUARTZ	14808-60-7	Some evidence of carcinogenicity, Lung, Immune system

**SECTION 12 – ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** N/A

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Information provided is for unused product only.**  
**RECOMMENDED METHOD OF DISPOSAL:** Dispose of according to Federal, State and local governmental regulations.  
**EPA HAZARDOUS WASTE NUMBER:** Not a RCRA hazardous waste.

**SECTION 14 – TRANSPORT INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION GROUND (49 CFR):****Proper Shipping Name:** Unrestricted**Identification Number:** None**Hazard Class or Division:** None**Packing Group:** None**DOT Reportable Quantity (lbs):** Copper (CAS# 7440-50-8)  
is reportable at 5000 pounds (2700kg)**Marine Pollutant:** Copper**INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):****Proper Shipping Name:** Unrestricted**Identification Number:** None**Hazard Class or Division:** None**Packing Group:** None**WATER TRANSPORTATION (IMO/IMDG):****Proper Shipping Name:** Environmentally hazardous substances,  
solid, n.o.s. (Copper)**Hazard Class or Division:** 9**Identification Number:** UN3077**Packing Group:** III**Marine Pollutant:** Copper**SECTION 15 – REGULATORY INFORMATION****UNITED STATES REGULATORY INFORMATION****TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.**TSCA 12 (b) Export Notification:** None**CERCLA/SARA Section 302 EHS:** None.**CERCLA/SARA Section 311/312:** Immediate Health Hazard.**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the  
Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Copper (CAS# 7440-50-8).**CALIFORNIA PROPOSITION 65:** No California Proposition 65 listed chemicals are known to be present.**CANADA REGULATORY INFORMATION****CEPA DSL/NDL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.**WHMIS HAZARD CLASS:** D.2.A, D.2.B**SECTION 16 – OTHER INFORMATION****DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Chromate Industrial Corporation (CIC) does not assume responsibility for any results obtained by persons over whose methods CIC has no control. It is the user's responsibility to determine the suitability of CIC's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of control CIC's products. In light of the foregoing, CIC specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of CIC's products. CIC further disclaims any liability for consequential or incidental damages of any kind, including lost profits.