



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

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**FOR CHEMICAL
EMERGENCY**

Call ChemTrec day/night:
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PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RED LION METAL CLEANER AND
TARNISH REMOVER

DATE PREPARED: April 10, 2009

PART NUMBER: 74537

CHROMATE INDUSTRIAL CORPORATION

PRODUCT TYPE: METAL CLEANER AND POLISH

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SECTION 1 – HAZARDOUS INGREDIENTS

INGREDIENT / CAS #	% BY WT.	SARA TITLE III	OSHA PEL	ACGIH TLV	STEL	LC ₅₀	LD ₅₀
SILICA CRYSTALLINE 14808-60-7	20-25%	NO	0.1mg/m ³ (dust)	0.1mg/m ³ (dust)	N/A	Human >0.3 ppm	N/A
ETHYL ALCOHOL 64-17-5	1-5%	NO	1000 ppm	1000 ppm	N/A	RAT 20,000 ppm	ORAL RAT 7,060 mg/kg DERMAL RABBIT >20,000 mg/kg
OXALIC ACID 144-62-7	1.5-2.5%	NO	1mg/m ³	1mg/m ³	2 mg/m ³	N/A	ORAL RAT 7,500 mg/kg
AMMONIUM HYDROXIDE 1336-21-6	6-9%	NO	N/A	25 ppm	35 ppm	MICE > 5000 ppm	ORAL RAT 350 mg/kg
OLEIC ACID 112-80-1	5-7%	NO	N/A	N/A	N/A	N/A	ORAL RAT 74,000 mg/kg

SECTION 2 – NON-HAZARDOUS INGREDIENTS

INGREDIENT / CAS #	% BY WT.
WATER 7732-18-5	>3%

Ingredients total weight % are below 100% only if all other unlisted are not considered hazardous by any federal (OSHA, WHMIS, SARA), any state or province, or local Right-to-Know regulations.

SECTION 3 – PHYSICAL DATA

BOILING POINT(°F/°C): 212°F/100°C

VAPOR DENSITY (AIR = 1): 0.6

APPEARANCE/ ODOR: Yellowish/viscous liquid w/ amine odor

FREEZE POINT (°F/°C): N/A

PERCENT VOLATILE (% WT.): 60

WATER/OIL DISTRIBUTIVE CO-EFFICIENT: Infinite

VOC: 0.46 lbs/gal 54 grams/liter

% VOC: 5

VAPOR PRESSURE (mmHg): 25

SOLUBILITY IN WATER: 77%

PHYSICAL STATE: Liquid

SPECIFIC GRAVITY: 1.12

EVAPORATION RATE (WATER = 1): 1

pH: 10

VOC GRAMS/SOLID: N/A

THRESHOLD ODOR: 0.01 ppm

N/A — NOT APPLICABLE
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: N/A

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMITS: LEL: N/A **UEL:** N/A

COMBUSTION PRODUCTS: CO, CO₂, NO₂, and SiO₂

EXTINGUISHING MEDIA: Water Fog, Foam, Dry Chemical, CO₂

SPECIAL FIRE-FIGHTING PROCEDURES: Firefighters should wear self-contained breathing equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

NFPA RATING: HEALTH: 3 **FIRE:** 1 **REACTIVITY:** 0

IMPACT SENSITIVE: No

STATIC SENSITIVE: No

EXPLOSIVE POWER: N/A

BURNING RATE: LOW

SECTION 5 – HEALTH HAZARD DATA

ROUTES OF ENTRY: SKIN CONTACT, EYE AND INGESTION

EFFECTS OF OVER-EXPOSURE: Causes eye irritation. May cause skin irritation . May cause burns or skin ulcers. Vapor may be harmful. Prolonged and repeated inhalation may be harmful to respiratory system, including burns to the nose and throat. Harmful or fatal if swallowed. Ingestion can cause vomiting, nausea, chemical burns to gastrointestinal tract and possible death.

NOTE: Normal product usage should not result in respirable dust that would be hazardous.

ANY SUSPECTED CARCINOGEN > OR = 0.1%: NO

EMERGENCY FIRST AID PROCEDURES:

Eyes: Immediately flush with plenty of water for 15 minutes and call a physician.

Skin: Wash thoroughly with soap and water. Launder contaminated clothing before re-use.

Inhalation: If affected, remove to fresh air, administer oxygen and call physician.

Ingestion: Seek physician immediately; show MSDS or Label. *DO NOT INDUCE VOMITING.* Give 1-2 glasses of water, then milk.

SECTION 6 – REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID): Stable.

CONDITIONS TO AVOID: Keep away from heat and flames.

INCOMPATIBILITY (SPECIFIC MATERIALS TO AVOID): Strong acids and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, amines, NOX, smoke.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7 – SPILL OR LEAK PROCEDURES

SARA TITLE III: 302: NO 304 CERCLA: YES 313: NO

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate the area. Ventilate the area. Wear approved respiratory protection. Clean up with absorbent material. Contain and pick up waste materials. Put in a sealed, approved container. Dispose of wastes in accordance with Federal, State and Local regulation.

SECTION 8 – SAFE HANDLING / PROTECTION INFORMATION**RESPIRATORY PROTECTION:**

VENTILATION: LOCAL EXHAUST: REQUIRED
SPECIAL: N/A

MECHANICAL (GENERAL): REQUIRED
OTHER: N/A

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: If ventilation is inadequate, wear approved respiratory equipment.

ESTIMATED LD₅₀, mg/kg: N/A

ESTIMATED LC₅₀, mg/kg: N/A

SENSITIZATION: N/A

IRRITANT: YES, EYES

SECTION 9 — SPECIAL PRECAUTIONS*KEEP OUT OF REACH OF CHILDREN.*

For professional industrial use only.

Always read the label plus precautions and follow directions carefully.

Keep from freezing.

Keep in cool place.

Keep containers airtight for storage.

Use with adequate ventilation.

Avoid breathing vapors and spray mist.

Avoid contact with eyes and skin.

Wash thoroughly after using.

DO NOT TAKE INTERNALLY.

Additional Technical Data Sheets and/or MSDSs are available upon request.

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