



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

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**FOR CHEMICAL
EMERGENCY**

Call ChemTrec day/night:
1-800-424-9300

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RED LION 4 WAY PLUS
PART NUMBER: 74107

DATE PREPARED: APRIL 30, 2009

PRODUCT TYPE: LUBRICANT

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SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

%	CAS NUMBER	INGREDIENT	UNITS	VAPOR
				PRESSURE
77	127-18-4	TETRACHLOROETHYLENE	ACGIH TLV 25 ppm ACGIH TLV 100 ppm STEL OSHA PEL 25 ppm	18 mm
16	64742-65-0	HEAVY PARAFFINIC OIL	ACGIH TLV 5 mg/m ³ as Mist OSHA PEL 5 mg/m ³ as Mist	
1	111-76-2	2-BUTOXYETHANOL	ACGIH TLV 20 ppm OSHA PEL 25 ppm	0.88 mm
2	57855-77-3	CALCIUM DINONYLNAPHTHALENE SULFONATE	ACGIH TLV N/A OSHA PEL N/A	
2	124-38-9	CARBON DIOXIDE	ACGIH TLV 5000 ppm OSHA PEL 5000 ppm	760 mm

SECTION 3 – HAZARDS IDENTIFICATION

HMIS CODES: HEALTH: 2* FLAMMABILITY: 2 REACTIVITY: 0

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE OR SKIN CONTACT with the product, vapor or spray mist.

EFFECTS OF OVER-EXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

SIGNS AND SYMPTOMS OF OVER-EXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None generally recognized.

CANCER INFORMATION: For complete discussion of toxicology data refer to Section 11.

SECTION 4 – FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: *DO NOT INDUCE VOMITING.* Get medical attention immediately.

SECTION 5 – FIRE - FIGHTING MEASURES

FLASH POINT: 185°F PMCC

FLAMMABLE LIMITS: **LEL:** 1.1 **UEL:** 10.6

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE-FIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- * Remove all sources of ignition. Ventilate the area.
- * Remove with inert absorbent.

SECTION 7 – HANDLING AND STORAGE

STORAGE CATEGORY: Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat and open flame. Vapors will accumulate readily and may ignite explosively.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE: Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are:

ACGIH TLV: 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction)

OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)

VENTILATION: Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES: None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION: Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

PRODUCT WEIGHT: 11.30 lb/gal; 1354 g/l

BOILING POINT: <0 - 343°F / <-18 - 172°C

VOLATILE VOLUME: 70%

VAPOR DENSITY: Heavier than air

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged): Volatile Weight 1.53% Less Water and Federally Exempt Solvents

SPECIFIC GRAVITY: 1.36

MELTING POINT: N/A

EVAPORATION RATE: Faster than ether

SOLUBILITY IN WATER: N/A

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: *BY FIRE:* Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TETRACHLOROETHYLENE, listed by NTP and IARC as an animal carcinogen and by OSHA as a potential human carcinogen, produced liver tumors and leukemia in rats and lung tumors in mice. Human epidemiological evidence is conflicting and inconclusive.

TOXICOLOGY DATA

CAS NO.	INGREDIENT NAME			
127-18-4	TETRACHLOROETHYLENE	LC ₅₀ RAT	4HR	N/A
		LD ₅₀ RAT		2630 mg/kg
64742-65-0	HEAVY PARAFFINIC OIL	LC ₅₀ RAT	4HR	N/A
		LD ₅₀ RAT		N/A
111-76-2	2-BUTOXYETHANOL	LC ₅₀ RAT	4HR	N/A
		LD ₅₀ RAT		470 mg/kg
57855-77-3	CALCIUM DINONYLNAPHTHALENE SULFONATE	LC ₅₀ RAT	4HR	N/A
		LD ₅₀ RAT		N/A
124-38-9	CARBON DIOXIDE	LC ₅₀ RAT	4HR	N/A
		LD ₅₀ RAT		N/A

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

This product contains tetrachloroethylene, a highly volatile solvent which is a toxic waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. In normal use this chemical will quickly evaporate, however grease or other residue removed by this product may contain sufficient TETRACHLOROETHYLENE to be classified as a toxic waste.

SECTION 14 – TRANSPORT INFORMATION

US Ground (DOT): May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.2, LIMITED QUANTITY, (ERG#126)

Canada (TDG): May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.2, LIMITED QUANTITY, (ERG#126)

IMO: May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.2, LIMITED QUANTITY, MARINE POLLUTANT, (PERCHLOROETHYLENE),
EmS F-D, S-U

SECTION 15 – REGULATORY INFORMATION**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% ELEMENT
127-18-4	TETRACHLOROETHYLENE	77	
	ZINC COMPOUND	1	
	GLYCOL ETHERS	1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

TSCA CERTIFICATION: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 – OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.