



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 4 Way Plus
RED LION PART NUMBER: 74107
PRODUCT TYPE: Lubricant
CHEMICAL FAMILY: N/A

DATE PREPARED: 05/04/04

CHROMATE INDUSTRIAL CORPORATION
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2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIHTLV	STEL	CAS #
Tetrachloroethylene	77	25 ppm	25 ppm	100 ppm	127-18-4
Heavy Paraffinic Oil	16	5mg/m ³ dust	5mg/m ³ dust	N/D	64742-65-0
2-Butoxyethanol	1	20ppm (skin)	20ppm (skin)	N/D	111-76-2
Calcium dinoylnaphthalene Sulfonate	2	N/A	N/A	N/D	57855-77-3
Carbon Dioxide	2	5,000 ppm	5,000 ppm	N/D	124-38-9

* An asterisk (*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Inhalation, Ingestion, Skin, Eyes

EFFECTS OF OVEREXPOSURE:

INHALATION: Irritation of the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. 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.

INGESTION: Vomiting. Aspiration hazard if swallowed.

SKIN CONTACT: Prolonged or repeated exposure may cause irritation.

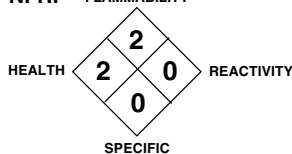
EYE CONTACT: Irritation. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None generally recognized.

HAZARD RATINGS

NFR: FLAMMABILITY



HMIS:

2	HEALTH
2	FLAMMABILITY
0	REACTIVITY
B	PROTECTION

4. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

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

INGESTION: Do not induce vomiting. Get medical attention immediately.

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

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

5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): 185°F PMCC **FLAMMABLE LIMITS:** Flammable **LEL** 1.1 **UEL** 10.6

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Foam.

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.

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.

6. ACCIDENTAL RELEASE MEASURES

SPILLS OR LEAKS: Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS: Keep away from heat and open flame. 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.

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.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

VAPOR DENSITY (AIR = 1): Heavier than air.

PERCENT VOLATILE BY VOLUME: 70%

APPEARANCE AND ODOR: Amber, Solvent

SPECIFIC GRAVITY (H₂O = 1): 1.36

MELTING POINT: N/A **PRODUCT WEIGHT:** 11.30 lb/gal 1354 g/l

EVAPORATION RATE (BUTYL ACETATE = 1): Faster than ether

FORM: Liquid **VOLATILE COMPONENTS:** N/D

VOC: Volatile Weight 1.52% Less Water and Federally Exempt Solvents.

10. STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: By fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride.

11. TOXICOLOGICAL INFORMATION

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

CAS NO. INGREDIENT NAME

127-18-4	Tetrachloroethylene	LC50	RAT	4 HR	Not Available
		LD50	RAT		2630 mg/kg
64742-65-0	Heavy Paraffinic Oil	LC50	RAT	4 HR	Not Available
		LD50	RAT		Not Available
111-76-2	2-Butoxyethanol	LC50	RAT	4 HR	Not Available
		LD50	RAT		470 mg/kg
57855-77-3	Calcium Dinonylnaphthalene Sulfona	LC50	RAT	4 HR	Not Available
		LD50	RAT		Not Available
124-38-9	Carbon Dioxide	LC50	RAT	4 HR	Not Available
		LD50	RAT		Not Available

CARCINOGENICITY: NTP: Not Listed **IARC MONOGRAPH:** Not Listed **OSHA REGULATED:** Not Regulated

CALIFORNIA PROPOSITION 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS: No data available.

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 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.

14. TRANSPORT INFORMATION

No data available.

15. REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

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

16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

N/D — NOT DETERMINED N/A — NOT APPLICABLE N/R — NOT REGULATED

Conforms to 29 CFR 1910.1200, OSHA

ANSI Z129.1 - 1988 American National Standard for Hazardous Industrial Chemicals