



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 4-Way Plus
RED LION PART NUMBER: 74200 through 74204
PRODUCT TYPE: Rust and Corrosion Preventive
CHEMICAL FAMILY: N/A

DATE PREPARED: March 1992
CHROMATE INDUSTRIAL CORPORATION
 100 DaVinci Drive, Bohemia, NY 11716 • (516) 567-2200

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIH TLV	CAS #
Petroleum Naptha	N/D	500 ppm	500 ppm	8052-41-3
Dipropylene Glycol Methyl Ether	N/D	100 ppm	100 ppm	34590-94-8
Barium Compounds*	<.5%	N/D	N/D	N/D
Propylene Glycol Monomethyl Ether	N/D	100 ppm	100 ppm	107-98-2

*SARA Section 313 regulates release reporting of barium compounds. This product contains less than 1/2 of 1 percent barium compounds.
 * 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: High vapor concentrations may be irritating to the nose, respiratory tract and may cause CNS depression, evidenced in giddiness, dizziness and nausea. In extreme cases, unconsciousness and death may occur.

INGESTION: May result in vomiting. Aspiration of vomitus into the lungs must be avoided, as even small quantities may result in aspiration pneumonitis. In severe cases, death may occur.

SKIN CONTACT: Prolonged or repeated exposure may result in dermatitis.

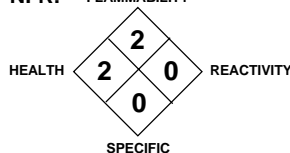
EYE CONTACT: May be eye irritant.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.

HAZARD RATINGS

NFR: FLAMMABILITY



HMS:

2	HEALTH
2	FLAMMABILITY
0	REACTIVITY
(H)	PROTECTION

4. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air and provide oxygen/artificial respiration if needed. Get medical attention.

INGESTION: If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquid into lungs. Get medical attention.

SKIN CONTACT: Flush with water. See physician if irritation persists.

EYE CONTACT: Flush with water. See physician if irritation persists.

5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD USE): 105-114°F **FLAMMABLE LIMITS:** LEL 1 UEL 6

EXTINGUISHING MEDIA: Water fog, foam, dry chemical or carbon dioxide

FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and full bunker gear recommended for fire fighters. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool.

UNUSUAL AND EXPLOSION HAZARDS: Containers exposed to intense heat from fire should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame should be cooled with large quantities of water to prevent weakening of container structure.

6. ACCIDENTIAL RELEASE MEASURES

SPILLS OR LEAKS: Keep source of ignition and hot metal surfaces away from spill. Dike and contain large spills. Small spills may be picked up with absorbent and placed in non-leaking containers for disposal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR STORING AND HANDLING: Avoid inhalation of vapors. No smoking near this product. Remove saturated clothing and flush affected areas.

OTHER PRECAUTIONS: Even empty containers may contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY: Explosion proof ventilation as required to control vapor concentrations within suggested PEL/TLV

SKIN PROTECTION: Chemical resistant gloves.

EYE PROTECTION: Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety shower, eye bath and washing facilities, apron

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 330-390°F

VAPOR PRESSURE (mm Hg): <10 @ 77°F

VAPOR DENSITY (AIR = 1): 4.8

SOLUBILITY IN WATER: Negligible

PERCENT VOLATILE BY VOLUME: 82-85

APPEARANCE AND ODOR: Brown liquid, characteristic solvent odor

SPECIFIC GRAVITY (H₂O = 1): <1.0

MELTING POINT: N/A

pH: 7-8

EVAPORATION RATE (BUTYL ACETATE = 1): <1.0

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

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid heat, open flame and contact with strong oxidizing agents such as liquid chlorine, concentrated oxygen, sodium or calcium hypochlorite.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and unidentified organic compounds during combustion.

11. TOXICOLOGICAL INFORMATION

EYE: No data available.

SKIN: No data available.

INGESTION: No data available.

INHALATION: No data available.

SUBCHRONIC: No data available.

CHRONIC CARCINOGENICITY:

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

TERATOLOGY: No data available.

REPRODUCTION: No data available.

MUTAGENICITY: No data available.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available.

CHEMICAL FATE INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS: No data available.

WASTE DISPOSAL METHOD: According to federal, state and local authorities only. Dispose of as required for materials containing extractable barium U.S. EPA-RCRA Hazardous waste #D005

14. TRANSPORT INFORMATION

TRANSPORTATION REQUIREMENTS (49CFR172-101)

D.O.T. CLASSIFICATION: None

D.O.T. SHIPPING NAME: None

15. REGULATORY INFORMATION

EXPOSURE LIMITS: No data available.

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