

MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

FOR CHEMICAL EMERGENCY

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

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 4 WAY PLUS DATE PREPARED: March 31, 2009

PART NUMBER: 74200, 74201, 74202, 74203 and 74204

CHROMATE INDUSTRIAL CORPORATION

PRODUCT TYPE: RUST PREVENTATIVE 5250-A Naiman Parkway, Solon, OH 44139 • (888) 567-2206

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	LIMITS	OPTIONAL
PETROLEUM NAPTHA CAS# 8052-41-3	500ppm	500ppm	N/A	70-80
DIPROPYLENE GLYCOL METHYL ETHER	100ppm	100ppm	N/A	5-10
CAS# 34590-94-8 PROPYLENE GLYCOL MONOMETHYL ETHER	100ppm	100ppm	N/A	5-10
CAS# 107-98-2				

HEALTH RATING: 2 FLAMMABILITY: 2 REACTIVITY: 0 PERSONAL PROTECTION: H

SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 330°F-390°F Specific Gravity. $(H_2O=1) < 1.0$

Vapor Pressure(mm Hg): <10 @ 77°F Melting Point: N/A

Vapor Density (air=1): 4.8 Evaporation Rate (Butyl Acetate=1): <1.0

Solubility in Water: Negligible

Appearance and Odor: Brown liquid, characteristic solvent odor

SECTION 4 - FIRE AND EXPLOSION HAZARD

Flash Point (Method Used): 105°F - 114°F **LEL:** 1 **UEL:** 6 Flammable Limits:

Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide

SPECIAL 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 FIRE 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.

SECTION 5 - STABILITY AND REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None

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 BY-PRODUCTS: Carbon monoxide and unidentified organic compounds during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

N/A — NOT APPLICABLE N/D — NOT DETERMINED N/E — NONE ESTABLISHED N/R — NOT REGULATED N/L - NOT LISTED REV 03/31/2009 BJM

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SECTION 6 - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHLATION, SKIN and INGESTION

Health Hazards(Acute and Chronic): May be eye irritant. Skin-prolonged or repeated exposure may result in dermatitis. Inhalation-high

vapor concentrations may be irritating to the nose, respiratory tract and may 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.

CARCINOGENICITY: NTP: No (ARC Monographs): No OSHA Regulated: No

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure

to this product.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes & Skin: Flush with water. See physician if irritation persists.

Inhalation: Remove victim 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.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: 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.

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

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.

SECTION 8 - CONTROL MEASURES

Respiratory Protection (Specify Type): Explosion proof ventilation as required to control vapor concentrations within suggested PEL/TLV.

VENTILATION: Local Exhaust: Special:

Mechanical: Other:

Protective Gloves: 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.

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