

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Cold Galvanizing Zinc Rich Primer (Aerosol) Part # 21214

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Cold Galvanizing Zinc Rich Primer
PRODUCT USE: Coating.

MANUFACTURER: Lloyds Laboratories Inc.
SUPPLIER: Lloyds Laboratories Inc.

ADDRESS: 613 Neal Drive, Peterborough, Ontario, K9J 6X7
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EMERGENCY #: 1 800 361-6766
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SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	Exposure Limit	LD ₅₀ Route, Species	LC ₅₀ Route, Species
Zinc Elemental	7440-66-6	30-60	N/A	Not available	Not available
Toluene	108-88-3	10-30	50 ppm	5000 mg/kg oral, rat	8000 ppm (4 hr) inhal, rat
VM&P Naphtha	64742-89-8	1-5	300 ppm	Not available	3400 ppm (4 hr) inhal, rat
Isobutane	75-28-5	7-13	1000 ppm	Not applicable	142,500 ppm (4h) inhal, rat
Propane	74-98-6	5-10	1000 ppm	Not applicable	Not available

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry:
Inhalation: Inhalation of solvents may cause irritation. Propellant is a simple asphyxiant.
Ingestion: May cause headache, nausea, vomiting and weakness.
Eye Contact: May cause irritation.
Skin Absorption: No data available for this product mixture.
Skin Contact: May cause irritation.
Effects of Acute Exposure: Dizziness, nausea, irritation to skin & eyes.
Effects of Chronic Exposure: Solvents may cause defatting dermatitis.
Exposure Limit of Material: See Section 2.

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SECTION IV: FIRST AID MEASURES

Eye Contact: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention.

Skin Contact: For skin, wash thoroughly with soap and water.

Inhalation: If affected by inhalation of vapour or spray mist, remove to fresh air.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention.

SECTION V: FIRE FIGHTING MEASURES

Auto Ignition Temperature (°C): 480.

Special Procedures: Water from fogging nozzles may be used to cool closed containers to prevent build-up if exposed to extreme temperatures. Full protective equipment including self contained breathing apparatus should be worn in a fire involving this material.

Flammability: Extremely flammable.

If yes, under which conditions? Excessive heat, sparks, and open flame.

Extinguishing media: Water, carbon dioxide, dry chemical, foam.

Flash Point (C), Tag Closed Cup (Concentrate): Lowest known value is Toluene @ 4°C.

Upper flammable limit (% by volume): 9.5.

Lower flammable limit (% by volume): 1.

Explosion data:

Sensitivity to static discharge: Not applicable.

Sensitivity to impact: Not applicable.

Hazardous Combustion Products: Hydrocarbon fumes and smoke. Carbon Monoxide where combustion is incomplete.

Aerosol Flame Projection Classified as: >45 cm but <100cm.

Flashback: Yes.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Remove all sources of ignition. Use an inert absorbent material and non sparking tools. Ventilate area. Prevent from entering a watercourse.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: Keep away from heat, sparks, and open flames.

Engineering Controls: Ventilation – Local (Mechanical if used indoors on a continuous basis).

Handling Procedures and Equipment: Store in a cool, well ventilated area not to exceed 50°C.

Synergistic Materials: None known.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Wear chemical resistant gloves.

Respiratory Protection: If used indoors on a continuous basis, use of a cartridge type respirator (NIOSH/MSHATC 23C or equivalent) is recommended.

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Cold Galvanizing Zinc Rich Primer (Aerosol) Part # 21214

Eye Protection: Safety glasses.
Footwear: Not normally required.
Other Protective Equipment: Not required.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Aerosol.
Appearance: Aluminium.
Odour: Aromatic odour.
Odour Threshold: Not available.
Vapour Pressure (PSIG) Aerosol @20°C: 40-50.
Boiling Point: 93-156.
Evaporation rate n-Butyl Acetate = 1: Greater than 1.
Vapour Density (Air=1): Greater than 1.
Solubility in water g/l (20°C): Negligible.
pH: Not applicable.
Specific Gravity (liquid): 2.23-2.27.
Coefficient of Water/Oil Dist.: Not available.
Freezing Point: (°C): Not available.
Aerosol Percent Nonvolatile: 37-38.
Specific gravity (aerosol): 1.49-1.53.

SECTION X: STABILITY AND REACTIVITY

Hazardous products of decomposition: Hydrocarbon fumes and smoke. Carbon monoxide where combustion is incomplete.
Chemical stability:
Yes: Under normal conditions.
No, Which conditions? Not applicable.
Compatibility with other substances:
No, which ones? Strong oxidizing agents.
Reactivity conditions? Not applicable.
Hazardous Polymerization: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

Reproductive effects: Toluene – Prolonged and repeated exposure of pregnant animals to Toluene (Levels greater than approximately 1500 ppm) has been reported to cause adverse fetal developmental effects.
Irritancy of material: Skin and eye irritant.
Sensitizing capability of material: Unknown.
Carcinogenicity of material: The ingredients of this product are not listed as carcinogens by NTP (National Toxicology Program), not regulated as carcinogens by OSHA, (Occupational Safety and Health Administration), and have not been evaluated by IARC, (International Agency for Research on Cancer), nor by ACGIH (American Conference of Governmental Industrial Hygienists).
Teratogenicity: No information is available and no adverse teratogenic effects are anticipated.

SECTION XII: ECOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Cold Galvanizing Zinc Rich Primer (Aerosol) Part # 21214

Environmental: Not available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Waste Disposal: Do not puncture or incinerate containers, even when empty. Dispose of in accordance with local, provincial and federal regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Consumer commodity (Aerosols, UN 1950 class 2.1).
D.O.T. Classification: Consumer commodity, ORM-D.

SECTION XV: REGULATORY INFORMATION

Canadian Regulations:
WHMIS Classification: A, B5, D2A, D2B.
CNFC Section 3.3.5: Level 1.
CEPA (Canadian Environmental Protection Act): All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

U.S. Regulations:
HMIS Rating Health: 2 Moderate Hazard.
HMIS Rating Flammability: 4 Severe Hazard.

HMIS Rating Reactivity: 1 Slight Hazard.
HMIS Rating Personal Protection: B.
NFPA Code 30B: Level 1.
SARA 313 Information: This product contains the following substances subject to the reporting requirements of section 313 of title III of the superfund amendments and reauthorization act of 1986 and 40 CFR Part 372:

CAS #	Chemical name:
108-88-3	Toluene
7440-66-6	Zinc Elemental

California Proposition 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:
Warning: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

CAS #	Chemical name:
108-88-3	Toluene

TSCA (Toxic Substances Control Act): All components of this product are listed on the TSCA Inventory. Any impurities present in this product are exempt from listing.

VOC (w/w%): 37-38.

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SECTION XVI: OTHER INFORMATION

Date: April 15, 2016	Prepared By: Technical Services Group	Telephone: 1 800 361 6766
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Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).