



LPS Laboratories
WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM
Material Safety Data Sheet

Section 1 - Product Identification and Use

Manufacturer's Name:

LPS Laboratories

Product Identifier:

LPS Cold Galvanize

Address (Number Street):

4647 Hugh Howell Road

Product Use:

Protective Coating

Address (City, Province, Postal Code):

Tucker, GA 30085-5052

Part Numbers:

C05128

Telephone Number:

770-243-8800

Packaging:

3.78 liters

Emergency Telephone Number:

1-613-996-6666 CANUTEC

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:

Class B Div. 2, Class D Div. 2B

Section 2 - Hazardous Ingredients

Ingredients	CAS Numbers	%WW	LC-50	LD-50	TLV
Zinc Metallic	7440-66-6	50 . 70	44 g/m ³ inhalation/4H/rat	5340 mg/kg oral/ rabbit	500 ppm
Aliphatic Hydrocarbon	8052-41-3	5 . 10	Not Available	Not Available	5 mg/m ^{3*}
Acetone	67-64-1	1 . 5	>6.1 mg/L inhalation/rat	>5 g/kg oral/ rat	100 ppm
Zinc Oxide	1314-13-2	1 . 5	2500 mg/m ³ inhalation/rat	7950 mg/kg oral/rat	2 mg/m ^{3*}
Xylene	1330-20-7	1 . 5	5000 ppm inhalation/4H/ rat	2119 mg/kg oral/rat	100 ppm
n-Butanol	71-36-3	0.1 . 1	8000 ppm inhalation/4H/rat	3484 mg/kg oral/rabbit	20 ppm
Ethylbenzene	100-41-4	0.1 - 1	35500 mg/m ³ inhalation/2H/rat	3500 mg/kg oral/rat	100 ppm

Section 3 - Physical Data

Boiling point (C°):	56 °C/133 °F	Specific gravity @ 25 C:	1.07
Vapor pressure @20°C:	102.8 mmHg	Evaporation rate:	9
Vapor density (Air = 1):	2	Freezing Point (C°):	Not Available
Coefficient of Water/Oil Distribution:	Not Available	pH:	Not Available
Physical State:	Liquid	Solubility in water:	Soluble
Odor/Color:	Light Gray/ mild sweet	Percent volatile by volume (%):	25%
Odor Threshold (ppm):	Not Available		



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Section 4 - Fire and Explosion Hazard

Flammability: Yes X No

Product will ignite when heated above flash point and exposed to an open flame.

Flash point: <27°C (81°F) TCC

Flammable limits: LEL: 1.2% UEL: 7.0%

Autoignition temperature: 527 °C/ 980 °F

Extinguishing media: Foam, dry chemical, carbon dioxide. Avoid water.

Hazardous combustion products: Hydrocarbons

Sensitivity to impact: None

Sensitivity to static discharge: Yes

Special hazards (including explosion data): Zinc dust in contact with water evolves hydrogen. An explosive condition may develop if this should happen in a confined space.

Section 5 - Reactivity Data

Stability: Stable

Conditions to avoid: Avoid sparks, open flames, and water

Incompatibility (materials to avoid): Extremely reactive or incompatible with oxidizing agents. Avoid water.

Hazardous decomposition products: These products are hydrocarbons

Hazardous polymerization: Will not occur.

Reactivity and under what conditions: Product should not be mixed with water.

Section 6 - Toxicological Properties

Primary route(s) of entry: Inhalation, eyes, and ingestion.

Exposure limits:

Components	CASRN	OSHA		ACGIH		NIOSH
		TWA/PEL	STEL	TWA	STEL	TWA/REL
Acetone	67-64-1	1000 ppm	NE	500 ppm	750 ppm	250 ppm
Zinc Metal	7440-66-6	5 mg/m ^{3*}	NE	5 mg/m ^{3*}	NE	NE
Aliphatic Hydrocarbon	68476-85-7	500 ppm	NE	100 ppm	NE	300 mg/m ³
Zinc Oxide	8052-41-3	5 mg/m ^{3*}	NE	2 mg/m ^{3*}	10 mg/m ^{3*}	5 mg/m ^{3*}
Xylene	1330-20-7	100 ppm	NE	100 ppm	150 ppm	100 ppm
n-Butanol	71-36-3	100 ppm	NE	20 ppm	NE	NE
Ethylbenzene	100-41-4	100 ppm	NE	100 ppm	125 ppm	100 ppm

NE- Not Established, * nuisance dust



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Section 6 - Toxicological Properties, continued

Acute effects of over exposure:

Eyes: Can cause eye irritation.

Skin: Repeated exposure may cause skin dryness or cracking.

Inhalation: Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache.

Ingestion: Swallowing/Ingesting this material can cause nausea, vomiting, and diarrhea. Minute amounts aspirated into lungs during ingestion may cause pulmonary injury.

Chronic effects of exposure: None known at this time.

Carcinogenicity: Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high Ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Medical conditions generally aggravated by exposure: Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.

Other toxicological properties (including reproductive toxicity, synergistic effects, sensitization, teratogenicity, mutagenicity): Prolonged overexposure to Xylene may cause adverse effects to the liver, urinary and reproductive systems.

Section 7 - Preventative Measures

Personal Protection:

Eyes: Wear chemical splash glasses/goggles/face shield when eye and/or face contact is possible due to splashing or spraying of material.

Respiratory: Use appropriate respirator if ventilation is inadequate.

Hands: Use solvent resistant gloves.

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Procedures to be followed in case of leak or spill:

Small Spill and Leak: Eliminate ignition sources. Absorb with an inert material and dispose of properly.

Large Spill and Leak: Eliminate ignition sources. For large spills, secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.

Waste disposal: Dispose of in accordance with municipal, provincial, and federal regulations. Do not flush to the sewer.

Handling and storage procedures:

Handling: DO NOT use around ignition sources. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. DO NOT breathe vapors or spray mists.

Storage: Keep container in a cool, well-ventilated area. DO NOT store near sources of ignition (spark or flame). Store below 120°F.

Precautions to be taken in handling and storage: Store all materials in dry, well-ventilated area. DO NOT breathe vapors.

H.M.I.S. Labeling 1996 :	Health: 2	Fire: 3	Reactivity: 0
H.M.I.S. Labeling III:	Health: [1] 2	Fire: 3	Physical Hazard: 0
N.F.P.A. Labeling:	Health: 2	Fire: 3	Reactivity: 0



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Material Safety Data Sheet

Section 8 - First Aid Measures

Emergency and first aid measures:

- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Get medical attention. If breathing is difficult, seek medical attention immediately.
- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 9 - Preparation Date

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Clea Johnson
Regulatory Affairs Coordinator
August 20, 2007
LPS Laboratories
The logo for ITW, consisting of the letters 'ITW' in a bold, italicized, sans-serif font.

Form # 2969
WHMIS LPS Cold Galvanize