



**LPS LABORATORIES
U.S. & Canadian
MATERIAL SAFETY DATA SHEET**

Section 1 • Chemical Product and Company Identification

Manufacturer's Name:

LPS Laboratories

Trade Name:

LPS Zinc X Corrosion Inhibitor- Aerosol

Address:

4647 Hugh Howell Road
Tucker, GA 30085-5052

Chemical Family:

Blended Compound

Telephone Number: 770-243-8800

Part Numbers:

05616, C05616

Emergency Telephone Number:

1-800-424-9300 Chemtrec;
Outside U.S.: (703) 527-3887

1-613-996-6666 CANUTEC

Section 2 • Composition, Information on Ingredients

Ingredients	CAS Numbers	%w/w	OSHA PEL-TWA	ACGIH - TLV	LC-50	LD-50	Other Limits
Zinc Metal	7440-66-6	20-30	15 mg/m ³	10 mg/m ³	Not available	Not available	Not available
Epoxy Ester resin	Not available	5-10	Not available	Not available	Not available	Not available	Not available
Xylenes	1330-20-7	5-10	100 ppm	100 ppm	6,700 ppm rat – 4 hr.	4.3 g/kg. (oral, rat)	150 ppm STEL
Ethyl Benzene	100-41-4	1-2	100 ppm	100 ppm	4,000 ppm rat- 4 hr.	2.27 g/kg. (oral, mice)	125 ppm STEL
Acetone	67-64-1	40-50	1000 ppm	500ppm	16,000 ppm rat – 4 hr.	9.75 g/kg. (oral, rat)	750 ppm STEL
Propane/Isobutane	68476-85-7	20-30	1000 ppm	1000 ppm	Not available	Not available	Not available

The above components are hazardous as defined in 29 CFR 1910.1200.

* Nuisance dust

Section 3 • Hazards Identification

Physical State and Appearance:

Grey liquid with paint solvent odor.

Emergency Overview:

DANGER

Extremely flammable. Eye irritant. Vapor harmful. Harmful or Fatal if Swallowed. Contents Under Pressure.

Primary route(s) of entry:

Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects:

Eyes:

Irritating to eyes.

Skin:

Repeated exposure may cause skin dryness or cracking.

Inhalation:

High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.

Ingestion:

Harmful if swallowed. Aspiration hazard if swallowed – can enter lungs and cause damage.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No IARC: No OSHA: No

Mutagenic Effects: None

Teratogenic Effects: None

Medical conditions aggravated by exposure: None from normal exposure.

Section 4 • First Aid Measures

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation occurs.
Skin:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

Section 5 • Fire Fighting Measures

Flash points:	CLOSED CUP: 27°C (80.6°F). (Tagliabue.)
Flammable limits:	LOWER: 1.2% UPPER: 7%
Products of Combustion:	These products are carbon oxides (CO, CO ₂)
Firefighting media:	SMALL FIRE: Use DRY chemical powder LARGE FIRE: use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Protection Clothing (Fire):	Firefighters should wear a full set of protective clothing, including a self-contained breathing apparatus, when fighting fires involving xylene.
Special Remarks on Explosion Hazards:	None.

Section 6 • Accidental Release Measures

Small Spill and Leak:	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak:	Ventilate area by opening windows and doors. Eliminate all ignition sources. Block the path of any flowing material using soil, gravel, or other readily available material. Absorb with DRY earth, sand or other non-combustible material.

Section 7 • Handling and Storage

Handling:	Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Keep away from heat, sparks and flame.
Storage:	Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Store below 120°F.

Section 8 • Exposure Controls, Personal Protection

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
Personal Protection:	
Eyes:	Safety glasses.
Respiratory :	Wear appropriate respirator when ventilation is inadequate.
Hands:	Impervious gloves.
Personal Protection in Case of a Large Spill:	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9 • Physical and Chemical Properties

Physical State and Appearance:	Grey Liquid with paint solvent odor.	Vapor pressure:	2.8 kPa (21mmHg) (at 20°C)
Color:	Grey, opaque	Vapor density:	>2 (Air=1)
Odor:	Hydrocarbon	Volatility:	57% (v/v)
Boiling/Condensation point:	107°C (224.6°F)	Evaporation rate:	0.6 Compared to Butyl acetate.
Specific gravity:	2.34 (Water=1)	VOC:	32.32%, 288 g/L, 2.40#/gal.
Odor Threshold:	Not available.	Solubility:	Insoluble in cold water.

Section 10 • Stability and Reactivity

Stability and Reactivity:	The product is stable.
Incompatibility to Various Substances:	Extremely reactive or incompatible with oxidizing agents.
Hazardous decomposition products:	These products are carbon oxides (CO, CO ₂)
Hazardous polymerization:	Will not occur.

Section 11 • Toxicological Information

Chronic Effects on Humans:	Chronic exposure to xylene may cause central nervous system depression, anemia, mucosal hemorrhage, bone marrow hyperplasia, liver enlargement, liver necrosis, and nephrosis. Repeated contact of the skin with xylene or acetone causes drying and dermatitis.
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Section 12 • Ecological Information

Ecotoxicity: Xylenes tend to migrate to groundwater where in some cases, they may persist for years. Biomagnification is not expected to be significant for xylene. If released to water, acetone may be lost due to volatilization and biodegradation. Bioconcentration of acetone in aquatic organisms and adsorption to sediment should not be important transport processes in water. A rapid biodegradation rate for acetone used in a Sewage Treatment Plant fugacity model results in 97 to 84 percent predicted total removal from waste water treatment plants, respectively.

Section 13 • Disposal Considerations

Waste Status:	This product, as sold, has the RCRA characteristic of ignitability and if discarded would have the hazardous waste code D001.
Disposal:	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Do not dump into sewers, on ground, or into a body of water. The preferred disposal options include sending the material to a licensed, permitted recycler, reclaimer, or incinerator.
Note:	Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

Section 14 • Transportation Information

Mode	Shipping Name	Hazard Class	Number	Label	Packing Group	Emergency Response Guide	Ocean Emergency Schedule
D.O.T. Ground	Consumer Commodity	ORM-D	1950	ORM-D (already on box)	NA	126	NA
IATA (U.S.)	Consumer Commodity	9	8000	Miscellaneous	NA	NA	NA
IATA (Intl.)	AEROSOLS, flammable	2.1	1950	Flammable Gas	NA	NA	NA
IMDG (reg.):	Aerosol	2.1	1950	Flammable Gas	NA	NA	EmS 2-13

Section 15 • Regulatory Information

HCS Classification:

Flammable aerosol

U.S. Federal Regulations:

TSCA 8(b) inventory: All of the ingredients are listed on the TSCA inventory.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):

The CERCLA Reportable Quantity is 1,000 lbs.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370): CAS # 7440-66-6, CAS# 1330-20-7, CAS #100-41-4.

WHMIS (Canada):

Class A: Compressed gas. Class B-5: Flammable Aerosol. Class D-2B: Material causing other toxic effects (TOXIC). This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16 • Other Information

Version: 1

MSDS#: 15616

Responsible Name: Ed Williams,
Technical Manager

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor

any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Ed Williams, Technical Manager

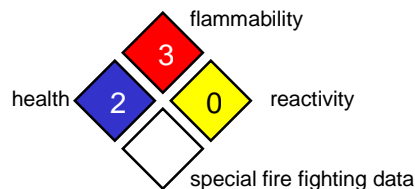
LPS Laboratories

A division of Illinois Tool Works

HMIS

Health	2
Fire Hazard	3
Reactivity	0
Personal Protection	B

NFPA



Form # 3506
LPS Zinc X Corrosion Inhibitor