SAFETY DATA SHEET

1. Identification

Product identifier LPS® Cold Galvanize

Other means of identification

Part Number 00516

Recommended use A zinc rich industrial maintenance primer designed for rust and corrosion protection.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

LPS Laboratories, a division of Illinois Tool Works, Inc. Company name

Address 4647 Hugh Howell Rd.

Tucker, GA 30084

Country (U.S.A.)

Tel: +1 770-243-8800

In Case of Emergency 1-800-424-9300 (inside U.S.)

+001 703-527-3887 (outside U.S.)

Website www.lpslabs.com E-mail sds@lpslabs.com

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1 **Health hazards** Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2 Carcinogenicity Category 2

Specific target organ toxicity, single Category 3 narcotic effects

exposure

OSHA hazard(s) Not classified.

Label elements



Signal word Danger

Hazard statement H222 - Extremely flammable aerosol.

H315 - Causes skin irritation.

H351 - Suspected of causing cancer.

H332 - Harmful if inhaled.

H312 - Harmful in contact with skin. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

Precautionary statement

Prevention P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Pressurized container: Do not pierce or burn, even after use. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area. P281 - Use personal protective equipment as required.

P264 - Wash thoroughly after handling.

Material name: LPS® Cold Galvanize SDS US Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P352 - Wash with plenty of soap and water.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P322 - Specific measures (see this label).

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P308 + P313 - IF exposed or concerned: Get medical advice/attention. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P391 - Collect spillage.

Storage

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P233 - Keep container tightly closed.

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise classified (HNOC)

Not classified.

3. Composition/information on ingredients

Mixtures

Hazardous components

Chemical name	CAS number	%
Petroleum Gases, Liquefied, Sweetened	68476-86-8	20 - < 30
Acetone	67-64-1	10 - < 20 5 - < 10
Xylene	1330-20-7	
Ethylbenzene	100-41-4	1 - < 3
Mineral Spirits Regular Stoddard Solvent	8052-41-3	1 - < 3
Zeolite (crystalline aluminosilicate)	1318-02-1	1 - < 3
Other components below reportable levels		50 - < 60

4. First-aid measures

Inhalation

If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If not breathing, give artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

Ingestion

Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and delayed

Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Rash. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped. Shortness of breath. Discomfort in the chest. Narcosis. Behavioral changes. Decrease in motor functions. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Powder. Alcohol resistant foam. Dry sand. Carbon dioxide (CO2).

Material name: LPS® Cold Galvanize 573 Version #: 01 Issue date: 03-07-2013 Specific hazards arising from the chemical

By heating and fire, harmful vapors/gases may be formed. In contact with water releases flammable gases which may ignite spontaneously. Contents under pressure. Container may explode in heat of fire.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear full protective clothing including self contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection.

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Water runoff can cause environmental damage.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move container from fire area if it can be done without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Local authorities should be advised if significant spillages cannot be contained. Consider initial downwind evacuation for at least 500 meters (1/3 mile). ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ventilate closed spaces before entering them. Avoid inhalation of vapors or mists.

Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will sediment in water systems.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage with non-combustible, absorbent material. Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

Environmental precautions

Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Avoid release to the environment. Refer to special instructions/safety data sheets. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. May be ignited by open flame. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid exposure - obtain special instructions before use. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. When using, do not eat, drink or smoke. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Use appropriate container to avoid environmental contamination.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Contents under pressure. Avoid exposure - obtain special instructions before use. Store locked up. Do not handle or store near an open flame, heat or other sources of ignition. Keep at temperature not exceeding 49°C. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store in a closed container away from incompatible materials. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use appropriate container to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
,		1000 ppm	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
,		100 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
,		500 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
,		100 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
,	TWA	500 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Zeolite (crystalline aluminosilicate) (CAS 1318-02-1)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Type	Value	
Acetone (CAS 67-64-1)	REL	590 mg/m3	
		250 ppm	
Ethylbenzene (CAS 100-41-4)	REL	435 mg/m3	
		100 ppm	
	STEL	545 mg/m3	
	0.22	125 ppm	
Mineral Spirits Regular Stoddard Solvent (CAS	Ceiling	1800 mg/m3	
8052-41-3)	REL	350 mg/m3	
		000 mg/m	

Biological limit values

US. ACGIH. BEIs. Biological Exposure Indices

03. ACGIT. DE13. Diological Exposure indices					
Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Ethylbenzene (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US. Rhode Island Hazardous Substances Right-to-Know Act (R.I. Gen. Laws Section 28-21-1 et. seq.)

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is

recommended.

Skin protection

Hand protection Chemical resistant gloves are recommended.

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Other Avoid contact with the skin. Chemical resistant gloves. Wear appropriate chemical resistant

clothing

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards None known.

General hygiene When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material on clothing. considerations

Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Liquid. Physical state Gas **Form** Aerosol.

Color Light grey. Opaque.

Odor Aromatic. Hydrocarbon-like.

Odor threshold Not available. Not available. pН

< 77.00 °F (< 25.00 °C) Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower 1.8 %

(%)

Flammability limit - upper

9.5 %

(%)

Not available. **Explosive limit - lower (%)** Not available. Explosive limit - upper (%) Vapor pressure > 1 kPa @ 25°C Vapor density > 1 (air = 1)Not available. Relative density Solubility(ies) Insoluble in water

Partition coefficient (n-octanol/water)

Not available.

Not available. **Decomposition temperature Viscosity** 3000 - 4500 cSt

Other information

Density 14.71 g/cm3 Heat of combustion > 30 kJ/g25.7 % Percent volatile Specific gravity 1.764 @ 25°C

VOC (Weight %) 0.76 MIR per U.S. State and Federal Aerosol Coating Regulations

10. Stability and reactivity

Reactivity Strong oxidizing agents.

Chemical stability Risk of ignition.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with water

liberates flammable gas.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on likely routes of exposure

Based on available data, the classification criteria are not met. Ingestion

Inhalation Harmful if inhaled. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and

nausea

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SDS US

Skin contact Harmful in contact with skin. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Discomfort in the chest. Shortness of breath. Narcosis. Coughing. Edema. Liver enlargement. Jaundice. Proteinuria. Behavioral changes. Decrease in motor functions. Irritant effects. Irritation of eyes and mucous membranes. Symptoms of overexposure may be headache, dizziness,

3 Not classifiable as to carcinogenicity to humans.

tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful in contact with skin.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitizationBased on available data, the classification criteria are not met. **Skin sensitization**Based on available data, the classification criteria are not met.

Germ cell mutagenicityDue to lack of data the classification is not possible.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

Mineral Spirits Regular Stoddard Solvent (CAS

8052-41-3)

Xylene (CAS 1330-20-7)

Zeolite (crystalline aluminosilicate) (CAS 1318-02-1)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityBased on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Chronic effects Prolonged exposure may cause chronic effects.

Further information Symptoms may be delayed.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Acetone -0.24

Xylene 3.12 - 3.2

Ethylbenzene 3.15

Mineral Spirits Regular Stoddard Solvent 3.16 - 7.15

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructions This material and its container must be disposed of as hazardous waste. Incinerate the material

under controlled conditions in an approved incinerator. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not incinerate sealed containers. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. After recovery of solvent dispose of residue as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

Local disposal regulations Not available.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

D003: Waste Reactive material

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions). Avoid discharge into water courses or onto the ground.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1950

UN proper shipping name Aerosols, flammable, MARINE POLLUTANT

Transport hazard class(es) 2.1

Subsidary class(es) Not available.

Packing group Not available.

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Labels required2.1Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es) 2.1 Subsidary class(es) -

Packaging group Not available.

Environmental hazards Yes Labels required 2.1

ERG Code Not available. **Special precautions for user** Not available.

IMDG

UN number UN1950

UN proper shipping name Aerosols, flammable, MARINE POLLUTANT

Transport hazard class(es) 2.1 Subsidary class(es) -

Packaging group Not available.

Environmental hazards

Marine pollutant Yes
Labels required 2.1

EmS Not available. Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

Annex II of MARPUL /3//8 and

the IBC Code

General information DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

No information available.

DOT



IATA; IMDG



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Marine pollutant



15. Regulatory information

US federal regulations

All components of this product are TSCA inventory listed and/or are exempt. All components of this product are DSL inventory listed and/or are exempt. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)
Ethylbenzene (CAS 100-41-4)
LISTED
Xylene (CAS 1330-20-7)
LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Nο

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - Yes

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4) Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

Food and Drug

Administration (FDA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer

and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1) Ethylbenzene (CAS 100-41-4)

Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)

Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

Ethylbenzene (CAS 100-41-4) 500 LBS Xylene (CAS 1330-20-7) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Acetone (CAS 67-64-1)

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Ethylbenzene (CAS 100-41-4)

Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)

Xylene (CAS 1330-20-7)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Ethylbenzene (CAS 100-41-4)

Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)

Xylene (CAS 1330-20-7)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Ethylbenzene (CAS 100-41-4)

16. Other information, including date of preparation or last revision

Issue date 03-07-2013

Version # 01

Further information HMIS® is a registered trade and service mark of the NPCA.

Disclaimer This safety data sheet was prepared in accordance with the Safety Data Sheet for Chemical

Products (JIS Z 7250:2010). Additional information is given in the Material Safety Data Sheet. The

information in the sheet was written based on the best knowledge and experience currently

available.

Revision Information Product and Company Identification: Product Uses

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: United States
HazReg Data: International Inventories

GHS: Classification

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