



SAFETY DATA SHEET

LPS Cold Galvanize Corrosion Inhibitor Aerosol Spray Can

Revision 3

Revision Date 10/5/05

Supersedes: 19/07/04

Section 1 – Chemical Product and Company Identification

Product Name: LPS COLD GALVANIZE CORROSION INHIBITOR (AEROSOL SPRAY CAN)

Part Numbers: M05400

Product Use: A long lasting zinc-rich corrosion inhibitor for ferrous parts.

Supplier: Geocel Limited, Western Wood Way, Langage Science Park, Plympton, Plymouth, PL7 5BG
United Kingdom

TEL: +44 (0)1752 202060
FAX: +44 (0)1752 334384

Manufacturer: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA 30085 (U.S.A.)
<http://www.lpslabs.com>

Section 2 – Composition / Information on Ingredients

INGREDIENT NAME	EC No.	CASRN	Classification	Weight Percent
Acetone	200-662-2	67-64-1	[F] R11; [Xi] R36,66,67	40 - 50%
Zinc Dust	231-175-3	7440-66-6	[N] R50/53	15 – 25%
Xylene	215-535-7	1330-20-7	[R]10; [Xi] R38; [Xn] R20/21	3 - 7 %
Ethyl Benzene	202-849-4	100-41-4	[F] R11; [Xn] R20	1 - 2 %
Hydrocarbon Aerosol Propellant*	270-704-2	68476-85-7	[F+] R12	20 - 30%

*(<= 0.1% w/w 1,3 butadiene)

Section 3 – Hazards identification

Human and Environmental Hazards

This preparation is considered hazardous according to European Union Directives 67/548/EEC and 1999/45/EC. This product will combust when subjected to ignition sources. Do not spray on a naked flame or any incandescent material.

Extremely flammable. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Remark: The classification for aspiration hazards (R65), does not apply for products placed on the market in aerosol containers. (EU-Directive 67/548 Annex VI 9.4). Inhalation of concentrated petroleum distillate mist or vapours can cause central nervous system (CNS) depression.



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Section 4 – First Aid Measures

- Eyes:** Liquid contact may cause irritation. Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation persists.
- Skin:** Get medical attention if irritation persists.
- Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen and get medical attention. If not breathing, give artificial respiration and 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. 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 5 – Fire Fighting Measures

- Rate of Burning:** Not Available. **Products of Combustion:** carbon monoxide and carbon dioxide.
- General Fire Hazards:** While this material is not considered flammable, high heat will cause product to boil, evolving vapour that could cause explosive rupture of closed containers.
- Firefighting media:** SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosions.
- Sensitivity to Impact:** None. **Sensitivity to Static Discharge:** See sections 6,7,8 and 15.
- Protection Clothing (Fire):** wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.
- NFPA Ratings:** Health: 1, Flammability: 3, Reactivity: 0

Section 6 – Accidental Release Measures

- Precautions to protect environment:** Do not allow entry into drains or watercourses. If this occurs inform the local authorities at once.
- Spill Cleanup methods:** This product is a hermetically sealed pressurised aerosol unit and accidental spillage is unlikely. If can is ruptured, allow contents to discharge in situ, whilst removing all ignition sources from the area and ensuring maximum ventilation. Use an absorbent material, eg sand, to mop up residues. See section 13 'Disposal Considerations'.

Section 7 – Handling and Storage

- Usage Precautions:** Do not spray on a naked flame or any incandescent material.
- Storage Precautions:** Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. It is recommended that aerosols are stored in their own location away from bulk flammable liquids and packaging materials. Store in a cool, dry place away from heat and ignition sources.



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Section 8 – Exposure Controls / Personal Protection

Component	CASRN	UK LT EXP (8 hrs.)	UK ST EXP (15 min.)	ACGIH TLV	ACGIH STEL
Acetone	67-64-1	750 ppm 1810 mg/m ³	1500 ppm 3620 mg/ m ³	500 ppm	750 ppm
Zinc Metal	7440-66-6	Not Established	Not Established	Not Established	Not Established
Xylene	1330-20-7	100 ppm (skin)	150 ppm (skin)	100 ppm	150 ppm
Ethyl Benzene	100-41-4	100 ppm	125 ppm	100 ppm	125 ppm
Hydrocarbon Aerosol Propellant	68476-85-7	9150 mg/ m ³	27400 mg/ m ³	5000 ppm	Not Established

Engineering measures Normal room ventilation is usually adequate. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

Personal protective equipment

Eye protection Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

Hand protection Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, use protective gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.

Respiratory protection Typical use of this product under normal conditions does not require the use of respiratory protection. If extended spraying of product will be made under poor ventilation, use appropriate organic vapor filtering respirators.

Hygiene measures Do not soak clothing with this product and continue working without immediately changing clothes and washing skin. Do not reuse clothing until it has been laundered. An eyewash fountain should be available in the work area.

Environmental exposure controls Soak up puddles of product (from a crushed or ruptured aerosol) with absorbent material and dispose of according to local regulations. Ventilate area to reduce worker exposure to vapours and prevent accumulation of explosive vapour concentrations.

Section 9 – Physical / Chemical Properties

Appearance:	Liquid.	Colour:	Medium gray.
Odour:	Strong solvent.	Vapour Pressure:	1.33 kPa @ 20 °C
Boiling Point (°C):	107 @ 101 kPa	Evaporation Rate:	<1.0(ethyl ether=1)
Specific Gravity (Water=1):	2.1 @ 20 °C	Flash Point (°C):	<-11°C
Vapour Density (air=1):	>2	Flash Point Method:	Tag-Closed Cup.
V.O.C. Content:	701 g/L	Auto Ignition Temperature (°C):	Not available
Flammable limits (estimated):	LOWER: 1.2% UPPER: 7%	Partition Coefficient (octanol/water):	< 1
		pH:	Not applicable



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Section 10 – Chemical Stability & Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Exposure to direct sunlight for extended periods. Temperatures in excess of 50°C.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur.

Section 11 – Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

Ingredients	CASRN	LC-50	LD-50
Acetone	67-64-1	50,100 mg/m ³ /8 hour (rat)	5,800 mg/kg (rat)
Zinc Metal	7440-66-6	Not Established	Not Established
Xylene	1330-20-7	5,267 ppm/6 hour (mouse)	4,988 mg/kg (rat)
Ethyl Benzene	100-41-4	55,000 mg/m ³ /2 hour (rat)	3,500 mg/kg (rat)
Hydrocarbon Aerosol Propellant	68476-85-7	Not available.	Not available.

Section 12 – Ecological Information

General Product Information

No ecotoxicity information is available for the product. Keep out of surface waters, sewers, and water supplies.



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Component Information

Acute Aquatic Toxicity

Component	CASRN	Test	Species	Results
Acetone	67-64-1	48-hour EC ₅₀	Daphnia magna	12700 mg/L
		96-hour LC ₅₀	Salmo gairdneri	5540 mg/L
Zinc Metal	7440-66-6	96-hour LC ₅₀	Pimephales promelas	6.4 mg/L
		72 hour LC ₅₀	Daphnia magna	5 µg/L
Xylene	1330-20-7	96-hour LC ₅₀	Salmo gairdneri	8.05 mg/L
		48-hour EC ₅₀	Daphnia magna	3.82 mg/L
Ethyl Benzene	100-41-4	96-hour LC ₅₀	Salmo gairdneri	14.0 mg/L
		48-hour EC ₅₀	Daphnia magna	2.1 mg/L
Hydrocarbon Aerosol Propellant	68476-85-7	48-hour EC ₅₀	Daphnia magna	Not available
		96-hour EC ₅₀	Microcystis pyrifera	Not available

Section 13 – Disposal Considerations

Disposal: Waste must be disposed of in accordance with national and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate.

Section 14 – Transportation Information

Road/Rail - ADR/RID :	UN no:	1950	ADR Class:	2
	Classification code:	5F	Shipping name:	AEROSOLS
	Labeling:	2.1		



IMDG-IMO	UN no:	1950	Class:	2.1
	Shipping Name:	Dangerous Goods in Limited Quantities of Class 2	Packing Group:	NA
	EmS:	F-D, S-U	Technical Name	NA

IATA-ICAO:	UN no:	1950	Class:	2.1
	Proper Shipping Name:	Aerosols, flammable	Labeling:	Flammable Gas





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Section 15 – Regulatory Information

Labels for Supply:



**EXTREMELY
FLAMMABLE**



IRRITANT

Risk Phrases:	R-12 R-36/38 R-50/53	Extremely Flammable Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R-66 R-67	Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Safety Phrases:	S-2 S-9 S-16 S-25 S-26 S-60	Keep out of the reach of children. Keep container in a well-ventilated place. Keep away from sources of ignition – No Smoking Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of as hazardous waste.
Precautionary Phrases:		Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Section 16 – Other Information

User Notes:	The purpose of the above information is to describe this product only in terms of Health and Safety requirements. The information given therefore, should not be construed as guaranteeing specific properties or specification. Customers should satisfy themselves as to the suitability and completeness of this information for their own particular use, bearing in mind any other Health and Safety legislation or regulations. The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is construed as a warranty or representation. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.	
Information Sources:	British Aerosol Manufacturers Association Code of Practice. HSE EH40 Occupation Exposure Limits. Suppliers Safety Data Sheets.	
Full R-Phrases	R10 R11 R-12 R-20/21 R-36 R-38 R-50/53 R 66 R 67	Flammable Highly Flammable Extremely Flammable Harmful by inhalation and in contact with skin. Irritating to eyes. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.