MATERIAL SAFETY DATA SHEET
LPS® BrightCoat

Revision Date: December 1, 2011 **Supersedes:** September 12, 2009

Section 1 • Product and Company Identification

Product Name: LPS® BrightCoat

Part Number(s): 05916, C05916

Chemical Name: Blended Compound

Product Use: A shiny zinc rich industrial maintenance primer designed for rust and corrosion protection.

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Road, Tucker, GA, USA 30084
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Website: http://www.lpslabs.com

Section 2 • Hazards Identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). 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.

Emergency Overview:

Aerosol: DANGER: Extremely flammable. Contents under pressure. Harmful or fatal if swallowed.

Bulk: Not applicable

Primary route(s) of entry: Skin and eye contact. Inhalation.

Potential Acute Health Effects:

Eyes: Irritating to eyes.

Skin: Repeated exposure may cause skin dryness or cracking. The solvent portion of this product can also be absorbed through the skin and produce Central Nervous System (CNS) depression effects.

Inhalation: Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache. In extreme case (overexposure in a confined space for example), severe depression of the central nervous system can take place.

Ingestion: Ingestion of this material will cause central nervous system depression and gastrointestinal irritation. May cause injury if aspirated into lungs.

Potential Chronic Health Effects:

Carcinogenic Effects: See Section 11

Mutagenic Effects: None

Teratogenic Effects: None

Target Organs: None

Medical conditions 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.

Signs and Symptoms
Stinging, tearing, redness and swelling of eyes. Repeated or prolonged skin contact can cause redness, irritation, skin dryness or cracking and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects. Ingestion of this material may cause nausea, vomiting, diarrhea, a burning sensation in the mouth and esophagus, dizziness, drowsiness, loss of consciousness and other central nervous system effects. As a result of vomiting, inhalation into lungs may cause pulmonary injury.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Weight Percent
Acetone	67-64-1	50 - 60%
Liquified Petroleum Gas	68476-85-7	20 - 30%
Zinc	7440-66-6	10 - 20%
Stoddard Solvent	8052-41-3	1 - 5%
Aluminum	7429-90-5	1 - 5%
Xylene	1330-20-7	0.1 - 1.0%
Ethyl Benzene	100-41-4	0.1 - 1.0%

Section 4 • First Aid Measures

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.

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). If breathing is difficult, seek medical attention immediately.

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

Products of Combustion: Carbon monoxide and carbon dioxide.

General Fire Hazards: Do not use on energized equipment. High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use DRY chemical powder, foam or carbon dioxide. Avoid water. If aerosols are not yet involved in fire, cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosions.

Sensitivity to Impact: None **Sensitivity to Static Discharge:** Yes

Protection Clothing (Fire): Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

Special Remarks on Explosion Hazards:
Aerosols may explode upon heating, spread fire and overcome sprinkler systems. Zinc dust in contact with water evolves hydrogen. An explosive condition may develop if this should happen in a confined space.

Section 6 • Accidental Release Measures

Containment Procedures:	**Small Spill and Leak:**	Eliminate ignition sources. Absorb with an inert material and dispose of properly.
	Large Spill and Leak:	Eliminate ignition sources. 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.
Clean-Up Procedures:	Contain and recover spilled material when possible.	
Evacuation Procedures:	Ventilate area of leak or spill. Keep unnecessary and unprotected people away.	
Special Procedures:	Remove all sources of ignition. Ventilate area. Wear personal protective equipment during cleanup.	

Section 7 • Handling and Storage

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

Storage: Keep container in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F (49°C).

Precautions to be taken in handling and storage:
Store aerosols as Level 2 Aerosol (NFPA 30B). Keep container in a cool, well-ventilated area. Avoid breathing vapors.

Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA	ACGIH	NIOSH	Supplier
Acetone	67-64-1	1000 ppm PEL	500 ppm TLV 750 ppm STEL	250 ppm TWA	None reported
Liquified Petroleum Gas	68476-85-7	1000 ppm PEL	1000 ppm TLV	1000 ppm TWA	None reported
Zinc	7440-66-6	5 mg/m3 (nuisance dust) PEL	5 mg/m3 (nuisance dust) TLV	Not established	None reported
Stoddard Solvent	8052-41-3	500 ppm PEL	100 ppm TLV	350 mg/m3 TWA	5 mg/m3 (oil mist) TWA
Aluminum	7429-90-5	5 mg/m3 (respirable fraction) PEL	Not established	10 mg/m3 (nuisance dust) TWA	None reported
Xylene	1330-20-7	100 ppm PEL	100 ppm TLV 150 ppm STEL	100 ppm TWA 150 ppm STEL	None reported
Ethyl Benzene	100-41-4	100 ppm PEL	100 ppm TLV 125 ppm STEL	100 ppm TWA 125 ppm STEL	None reported

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

Personal protective equipment

Eye protection: Chemical splash proof glasses/goggles/face shield when there is a potential for eye contact. Contact lenses should not be worn.

Hand protection: Use chemically resistant protective gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

Respiratory protection: Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e. organic vapor cartridge).

General Hygiene Considerations: Avoid breathing mist. Avoid eye and skin contact. Have eye-wash facilities immediately available. Wash thoroughly after handling and before eating or drinking.

Section 9 • Physical and Chemical Properties

Appearance:	Reflective silver gray liquid	**Color:**	Reflective silver gray
Odor:	Mild, sweet	**Evaporation Rate:**	0.6 (BuAc = 1)
Solubility Description:	< 75% by weight	**Flash Point:**	27ºC (80ºF) - dispensed liquid
Boiling Point:	138ºC (281°F)	**Flash Point Method:**	Tag-Closed Cup
Specific Gravity (H2O=1):	0.80 - 0.87 @ 20°C	**Decomposition Temperature:**	Not established
Vapor Density (air = 1):	> 2	**Auto ignition temperature:**	493ºC (919ºF)
Vapor Pressure:	1550 - 2070 mm Hg @ 20ºC	**Flammable limits (estimated):**	LOWER: 1.2% UPPER: 7.0%
Rule 1171 PPc:	Not established	**Partition Coefficient (octanol/water):**	Not established
V.O.C. Content:	Aerosol: 237 g/L, 2.0 lb/gal Bulk: Not applicable	**Odor Threshold:**	Not established
Melting Point:	Not established	**Viscosity:**	> 6500 cPs @ 25ºC
pH:	Not applicable	**Volatiles:**	80 - 82% by volume
Heat of combustion:	Aerosol: 25 - 30 kJ/g Bulk: Not applicable		

Section 10 • Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Keep away from heat and ignition sources.
Incompatibility:	Extremely reactive or incompatible with oxidizing agents. Avoid water.
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.

Following exposure to vapors, this material can produce central nervous system depression. High atmospheric concentrations can result in eye, nasal and respiratory tract irritation. However, if handled in accordance with good industrial hygiene practice, this product will not present a significant hazard in the workplace.

B: Component Analysis

Component	CASRN	LC-50	LD-50
Acetone	67-64-1	16000 ppm / rat / 4 hr*	5800 mg/kg / oral / rat* 20000 mg/kg / dermal / rabbit*
Liquified Petroleum Gas	68476-85-7	658 mg/L / rat / 4 hr*	Not appropriate
Zinc	7440-66-6	Not established	Not established
Stoddard Solvent	8052-41-3	> 5500 mg/m3 / rat / 4 hr	> 5000 mg/kg / oral / rat*
Aluminum	7429-90-5	Not established	Not established
Xylene	1330-20-7	5000 ppm / rat / 4 hr	2119 mg/kg / oral / rat
Ethyl Benzene	100-41-4	55000 mg/m3 / rat / 2 hr	3500 mg/kg / oral / rat

* Supplier Data

Carcinogenicity:
Ethylbenzene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) has classified Ethylbenzene as a possible carcinogen to humans.

Section 12 • Ecological Information

Mobility: Semi-volatile. Readily absorbed into soil. **Persistence / Degradability:** Only slightly biodegradable

Bioaccumulative potential: No bioaccumulation potential **Other adverse effects:** Highly toxic to the aquatic environment.

Ecological studies have not been conducted for this product. The following information is available for component(s) of this product.

Ecotoxicity

Effects on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Acetone	67-64-1	96-hr LC50	Alburnus Alburnus	11,000 mg/L
	Liquified Petroleum Gas	68476-85-7	See below		
	Zinc	7440-66-6	96-hr LC50	Cypris Subglobosa	8,352 mg/L
	Stoddard Solvent	8052-41-3	96-hr LC50	Fathead Minnow	2,200 mg/L
	Xylene	1330-20-7	96-hr LC50	Carassius Auratus	36,810 µg/L
	Ethyl Benzene	100-41-4	96-hr LC50	Carassius Auratus	94,400 µg/L
Acute Toxicity on Daphnia	Acetone	67-64-1	48-hr EC50	Daphnia Magna	12,700 mg/L
Bacterial Inhibition	No data available				
Growth inhibition of algae					
Bioaccumulation in fish					

* Supplier Data

The acute/prolonged toxicity test substances for 68476-85-7 were methane, propane and butane. Significant losses of these test substances by evaporation were likely to occur when these test studies were performed. The calculated 96-hr LC50 value for propane is 13.0 mg/L and 6.0 mg/L for butane. No analytical ecological monitoring test data is available.

Section 13 • Disposal Considerations

Waste Status: Aerosol cans, if depressurized and emptied to less than 1 inch (2.54 cm) of fluid contents, are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, the aerosol product carries the waste codes D001 and D003 (U.S.).

Disposal: Waste must be disposed of in accordance with any and all applicable environmental control rules and/or regulations.

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 • Transport Information

D.O.T. Ground	**Shipping Name:**	Consumer Commodity	**UN No.:**	NA
	Hazard Class:	ORM-D	**Technical Name:**	NA
	Subclass:	NA	**Hazard Label:**	ORM-D Already on box
	Packing Group:	NA		
Road/Rail - ADR/RID	**UN No.:**	1950	**ADR Class:**	2
	Packing Group:	NA	**Classification Code:**	5F
	Name and description:	AEROSOLS, flammable	**Hazard ID No.:**	NA
	Labeling:	2.1	**Technical Name:**	NA
IMDG-IMO	**UN No.:**	1950	**Class:**	2
	Shipping Name:	Aerosols	**Subsidiary Risk:**	2.1
	Labeling:	2	**Packing Group:**	NA
	Packing Instructions:	P003, LP02	**EmS:**	F-D, S-U
	Marine pollutant:	No	**Technical Name:**	NA
IATA - ICAO:	**UN No.:**	1950	**Class:**	2.1
	Shipping Name:	Aerosols, flammable	**Subclass:**	NA
	Packing Instructions:	203, Y203 (Ltd. Qty.)	**Packing Group:**	NA
	Labeling:	Flammable Gas	**Technical Name:**	NA

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.

Section 15 • Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D001, D003

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):
Acetone 67-64-1 5000 lbs
Ethylbenzene 100-41-4 1000 lbs
Xylene 1330-20-7 100 lbs
Zinc 7440-66-6 1000 lbs

Toxic Substances Control Act (TSCA):
All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III SARA Section 311/312 (40 CFR 370) Hazard Categories:
Sudden Release of Pressure, Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):
Zinc 7440-66-6 (<20%); Aluminum 7429-90-5 (<5%)

Section 112 Hazardous Air Pollutants (HAPs): Ethylbenzene 100-41-4 Xylene 1330-20-7

State Regulations

California: This product contains chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

California and OTC States: This product complies with Aerosol Coating VOC Regulations for Metallic Coatings (MIR = 1.9)

New Jersey Right to Know:
Aerosol: Acetone 67-64-1 ● Liquified Petroleum Gas 68476-85-7 ● Zinc 7440-6-6 ● Aluminum 7429-90-5 ● Stoddard Solvent 8052-41-3 ● Xylene 1330-20-7 ● Ethylbenzene 100-41-4
Bulk: Not applicable

International Regulations

Canadian Environmental Protection Act (CEPA):
All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System WHMIS:
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:
Aerosol: Class A, Class B5, Class D2A, Class D2B

Other Regulations:

Montreal Protocol listed ingredients:	None
Stockholm Convention listed ingredients:	None
Rotterdam Convention listed engredients:	None
RoHS Compliant:	Yes

Section 16 • Other Information

MSDS#: 15916
MSDS Preparation Responsible Name:
Elena Badiuzzi
Compliance Manager
Telephone: +1 770 243-8800

HMIS 1996		HMIS III	
Health:	2	Health:	[*] 2
Flammability:	3	Flammability Aerosol:	3
		Flammability Bulk:	NA
Reactivity:	0	Physical Hazard Aerosol:	2
		Physical Hazard Bulk:	NA

NFPA
Flammability

Health  Reactivity

Special

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.

Elena Badiuzzi, Compliance Manager
LPS Laboratories, a division of Illinois Tool Works