



MATERIAL SAFETY DATA SHEET

LPS[®] Precision Clean Aerosol

Revision 4

Revision Date: 3/13/2009

Supercedes: 7/18/08

Section 1 • Product and Company Identification

Product Name: LPS[®] Precision Clean Aerosol

Part Number: 02720, C02720

Chemical Name: Alkaline, aqueous solution

Product Use: An industrial spray cleaner designed to remove grime, oils, and light grease from metal, concrete and other durable surfaces.

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084

TEL: 1 770-243-8800

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

FAX: 1 770-243-8899

Website: <http://www.lpslabs.com>

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably won't help the non-professional. LPS includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, don't hesitate to call us at 800/241-8334.

Worker Toxicity

LPS PRECISION CLEAN AEROSOL is an industrial chemical. It is a specialized highly alkaline cleaner designed to remove grime, oils, and light grease from metal, concrete and other durable surfaces. It contains sodium metasilicate, a strongly alkaline material that can be irritating to skin and eyes. Avoid extended exposure to unprotected skin. Don't get it in your eyes (it stings), or breathe heavy mist (if working with pressure washing equipment in poorly ventilated areas). For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS PRECISION CLEAN AEROSOL is considered to be non-flammable under standard industry tests; however, it does contain propane/isobutane propellant ("gas grill" fuel). Be aware of ignition sources in your area when dispensing this product. Flammable propellant is heavier than air and will travel along the floor for some distance.

Disposal

Aerosol products are considered non-hazardous for disposal if they are depressurized and empty. Per U.S. Federal regulations, an aerosol is considered to be empty if it has less than 1 inch of fluid left inside. Aerosols that fail to spray out completely and remain pressurized can be safely punctured so that the concentrate can be used as intended and the container discarded as non-hazardous waste. See section 13 for additional disposal information.



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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: WARNING: Mild eye irritant. Contents under pressure.

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.

Inhalation: Inhalation of large quantities of spray mist may cause irritation of the respiratory tract.

Ingestion: Product has a low order of acute oral toxicity, but ingestion of large quantities may cause nausea, vomiting, and gastrointestinal irritation.

Potential Chronic Health Effects:

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

Mutagenic Effects: None

Teratogenic Effects: None

Medical conditions aggravated by exposure: Persons with pre-existing skin disorders or chronic respiratory diseases should avoid exposure.

Signs and Symptoms

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high mist concentrations may cause irritation of throat and eyes.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Weight Percent
Propane/Isobutane Propellant	68476-85-7	4 - 6%
Dipropylene Glycol Monomethyl Ether	34590-94-8	1 - 2%
Sodium Metasilicate	6834-92-0	0.1 – 1%

*The remaining ingredients are not classified as hazardous per 29 CFR 1910.1200 Subpart Z



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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 dioxide and carbon monoxide.

General Fire Hazards: 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 water spray, fog or foam. 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:** None

Protection Clothing (Fire): None.

Special Remarks on Explosion Hazards: Intensive heat created by fire will cause aerosols to burst.

Section 6 • Accidental Release Measures

- | | | |
|-------------------------------|--|--|
| Containment Procedures | Small Spill and Leak: | Absorb with an inert material and dispose of properly. |
| | Large Spill and Leak: | Ventilate area. 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 and dispose of properly. |
| Clean-Up Procedures | Recover free product and place in suitable container for disposal. | |
| Evacuation Procedures | Ventilate area of leak or spill. Keep unnecessary and unprotected people away. | |
| Special Procedures | Wear appropriate protective equipment during cleanup. | |



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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.

Precautions to be taken in handling and storage: Store all materials in dry, well-ventilated area. Avoid breathing vapors.

Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH TLV	ACGIH STEL	NIOSH
Propane/Isobutane Propellant	68476-85-7	1,000 ppm	1250 ppm CANADA	1,000 ppm	Not Established	1000 ppm
Dipropylene Glycol Monomethyl Ether	34590-94-8	100 ppm	150 ppm CANADA	100 ppm	150 ppm	100 ppm TWA 150 ppm STEL
Sodium Metasilicate	6834-92-0	Not Established	Not Established	Not Established	Not Established	Not Established

Engineering Controls: Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines.

Personal Protection:

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

Respiratory: If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection.

Hands: Use chemically resistant gloves (i.e., nitrile). 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.

General Hygiene Considerations: Wash thoroughly after handling. Have eye-wash facilities immediately available.



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Section 9 • Physical and Chemical Properties

Appearance:	Liquid.	Color:	Turquoise
Odor/Taste:	Citrus.	Vapor Pressure:	~24 mm Hg at 25°C
Solubility Description:	100% in water	Evaporation Rate:	1 (H ₂ O=1)
Boiling Point :	100°C at 760mmHg	Flash Point:	<73°F (22.8°C)
Specific Gravity (Water=1):	Conc: 1.00–1.03 at 20°C	Flash Point Method:	Open-Cup
Vapor Density (air=1):	>1	Auto Ignition Temperature:	Not Established.
V.O.C. Content:	66 g/L, 6.5%	Partition Coefficient (oct/water):	> 1.0
Flammable limits (estimated):	LOWER: NE UPPER: NE	Viscosity:	<3 centistokes at 25°C
pH:	Conc: 12.5		

Section 10 • Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Avoid substances that react with water. Extreme heat or freezing.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	These products are carbon oxides (CO, CO ₂)
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

Component	CASRN	LC-50	LD-50
Propane/isobutane Propellant	68476-85-7	Not Established	Not appropriate
Dipropylene Glycol Methyl Ether	34590-94-8	Not Established	5400 µL/kg/oral/rat 10 mL/kg/dermal/rabbit
Sodium Metasilicate	6834-92-0	Not Established	1153 mg/kg/oral/rat



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Section 12 • Ecological Information

Mobility: May adsorb to sediments **Persistence and degradability:** Biodegradable.

Bioaccumulative potential: No bioaccumulation potential

Ecotoxicity:

Component	CASRN	Test	Species	Results
Sodium Metasilicate	6834-92-0	48-hour EC ₅₀	Daphnia magna	4857 mg of 35% solution per liter
		96-hour EC ₅₀	Brachydanio rerio	3185 mg of 35% solution per liter at pH 10.1
Dipropylene Glycol Methyl Ether	34590-94-8	48-hour EC ₅₀	Daphnia magna	1919 mg/L
		96-hour EC ₅₀	Pimephales promelas	>10,000 mg/L
Propane/isobutane Propellant	68476-85-7	No data available		

Section 13 • Disposal Considerations

Waste Status: Aerosol products, if depressurized and emptied to less than 2.5 cm of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, this item carries waste code D003 and D002. (U.S.)

Disposal: Waste must be disposed of in accordance with federal, state, provincial, 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. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.



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Section 14 • Transport Information

D.O.T. Ground	Shipping Name:	Consumer Commodity	UN Number:	NA
	Hazard Class:	ORM-D	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D
Road/Rail - ADR/RID :	UN no:	1950	ADR Class:	2
	Packing group:	NA	Classification code:	5A
	Name and Description:	AEROSOLS, asphyxiant	Hazard ID no:	NA
	Labeling:	2.2		
IMDG-IMO	UN no:	1950	Class:	2
	Shipping Name:	AEROSOLS	Subsidiary Risk:	NA
	Labeling:	NA	Packing group:	N/A
	Marine pollutant:	NO	EmS:	F-D, S-U
IATA-ICAO:	UN no:	1950	Class:	2.2
	Shipping Name:	Aerosols, non-flammable	Subclass	NA
	Packing group:	NA	Packing instructions:	203, Y203 (LTD QTY)
	Labeling:	Non-Flammable Gas		

Section 15 • Regulatory information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D003, D002

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product contains no Reportable Quantity (RQ) Substances.

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, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard.

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Title III Section 313 (40 CFR 372): None

Section 112 Hazardous Air Pollutants (HAPs): None



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State Regulations

New Jersey Right to Know: Water 7732-18-5 • Dipropylene Glycol Methyl Ether 34590-94-8 • C10 – C16 Ethoxylated Alcohol 68002-97-1 • Sodium Metasilicate 6834-92-0 • Tetrapotassium Pyrophosphate 7320-34-5 • Propane/Isobutane Blend Propellant 68476-85-7

California: This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm.

California and OTC States: This product conforms to consumer regulations.

International Regulations

Canadian Environmental Protection Act: 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:

Class A, Class D2B

Other Regulations

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

Section 16 • Other Information

MSDS#12720 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III	NFPA Flammability 	
	Health:	1	Health:		[1]
	Flammability:	3	Flammability:		1
	Reactivity:	0	Physical Hazard	2	

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.

Clea L Johnson, Regulatory Affairs Coordinator
LPS Laboratories
A division of Illinois Tool Works