



MATERIAL SAFETY DATA SHEET

LPS Instant Super Degreaser

Revision 4

Revision Date 8/19/2009

Supersedes: 3/24/2008

Section 1 • Product and Company Identification

Product Name: LPS Instant Super Degreaser

Part Number: 00719/00720, 07128, 00705, 00755, C00719/C00720, C07128, C00705, C00755

Chemical Name: Halogenated hydrocarbons

Product Use: A nonflammable, heavy-duty solvent designed to remove oil, grease, wax, dirt, moisture, tar, and other contaminants.

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 INSTANT SUPER DEGREASER is an industrial chemical. It is strong enough to remove tough industrial soils, so it can irritate your skin. We suggest you wear gloves and avoid extended exposure to unprotected skin. Don't get it in your eyes (it stings), or breath large amounts of the vapor, (it will dry out your nasal passages and if you breathe large amounts in poorly ventilated areas it can make you dizzy and even sick). Used on a rag or with short bursts from an aerosol, the product won't produce fumes in any great quantity, (don't spray LPS INSTANT SUPER DEGREASER for extended periods without adequate ventilation). If you're going to perform work involving a lot of cleaning solvent in a poorly ventilated area, use of a respirator or self-contained breathing equipment may be required. For more exposure and first aid information, refer to MSDS Sections 2, 3, 8 and 11.

Flammability

LPS INSTANT SUPER DEGREASER has no flash point but does have a high autoignition temperature: 914° F. This represents the temperature of a surface that the liquid must contact in order to combust on its own. Under normal use conditions flammability isn't a concern, but don't spray the product onto red-hot metal surfaces or live high amperage electrical systems.

Disposal

Because LPS INSTANT SUPER DEGREASER has no flash point and is not "listed" as a specific hazard by EPA, it is not considered a hazardous waste product. With the aerosol container, if less than one inch of liquid product remains in the can and it has no positive pressure, it is considered "empty" by EPA regulations. If you spill bulk LPS INSTANT SUPER DEGREASER, notify the proper environmental or safety department at your company right away. Once LPS INSTANT SUPER DEGREASER is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, if the material you are cleaning is hazardous. If you are not sure how to dispose of the used LPS INSTANT SUPER DEGREASER, have your Environmental Compliance Officer contact us.



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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.

Physical State and Appearance: Fast drying, clear, colorless solvent mixture.

Emergency Overview:

Aerosol: DANGER: Harmful or fatal if swallowed. Vapor Harmful. Contents under pressure. HARMFUL if inhaled. Affects heart, central nervous system, liver and kidneys. Causes skin, eyes and respiratory tract irritation (see section 11).

Bulk: DANGER: Harmful or fatal if swallowed. Vapor Harmful. HARMFUL if inhaled. Affects heart, central nervous system, liver and kidneys. Causes skin, eyes and respiratory tract irritation (see section 11).

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 CNS depression effects.

Inhalation: High vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

Ingestion: Not a likely route of exposure. If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Potential Chronic Health Effects:

Continuous exposure to high concentrations of 1-bromopropane has been shown to cause serious effects of the central and peripheral nervous systems in human workers (see section 11).

Carcinogenic Effects: OSHA: (A5)No NTP: No IARC: No

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 in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects. Loss of feeling and motor control.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Percent by Weight
1-bromopropane	106-94-5	90-95%
n-propanol	71-23-8	1-5%
Carbon dioxide (aerosol only)	124-38-9	2-4%



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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

Flash point: TCC CLOSED CUP: None

Flammable limits: LOWER: 4.0% UPPER: 8.0% **Autoignition Temperature:** >490°C (914°F)

Products of Combustion: Carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen bromide.

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: None.

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: While this material is not considered flammable, high heat will cause product to boil and cause explosive rupture of closed containers.

Section 6 • Accidental Release Measures

Small Spill and Leak: Absorb with an inert material and dispose of properly.

Large Spill and Leak: For large spills, secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Water mist or spray may be used to reduce or disperse vapors; however, it may not prevent ignition in closed spaces. Collect any excess material with absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. See section 13 for additional disposal information.



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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. Avoid spraying large quantities of material into live electrical motors and other such equipment.

Storage: Keep container in a cool, well-ventilated area. Store below 120°F.

Precautions to be taken in handling and storage: Store aerosols as Level 1 Aerosol (NFPA 30B). 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
1-bromopropane	106-94-5	100 ppm	Not Established	10 ppm	Not Established	Not Established
n-propanol	71-23-8	200 ppm	Not Established	100 ppm	Not established	200 ppm TWA 250 ppm STEL
Carbon dioxide	124-38-9	5000 ppm	Not Established	5000 ppm	30000ppm	5000 ppm TWA 30000 ppm TWA

*Mfg recommended, not established by OSHA, based on study by independent sources.

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

Personal Protection:

Eyes: Safety glasses/goggles.

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

Hands: **Hands:** Use PVA or Laminate Film* gloves. (*Ansell Gloves)

General Hygiene Considerations: Have eye-wash facilities immediately available.



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Section 9 • Physical and Chemical Properties

Appearance	Rapid drying clear liquid.	Flash Point	None
Odor	Characteristic (Strong)	LEL:	4.0%
Odor Threshold	Not available	UEL	8.0%
Decomposition Temperature	Not available	Auto Ignition Temperature	>490°C (914°F)
pH	Not Available	Evaporation rate	6 (n-butyl acetate = 1)
Vapor Pressure	~112 mmHg (at 20°C)	Volatility	100% (v/v)
Melting Point	Not Available	Vapor density	~4.3 (Air=1)
Specific gravity	1.305 (Water=1)	Boiling/Condensation point	70.2°C (158 °F)
Viscosity	Not available	Solubility in water	3-5%
Coefficient of Oil/Water Distribution	< 1	VOC	96.5%, 1257 g/L, 10.5 #/gal. Per CARB / OTC Regulations
		Viscosity	Not Available

Section 10 • Stability and Reactivity

Stability and Reactivity: The product is stable.

Hazardous polymerization: Will not occur.

Incompatibility with Various Substances: Avoid contact with aluminum equipment such as tanks, pumps and fittings. May react violently with alkali and alkaline earth metals such as sodium, potassium and barium.

Hazardous decomposition products: These products are carbon oxides (CO, CO₂), hydrogen bromide, and hydrogen fluoride.

Section 11 • Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

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.



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B: Component Analysis

Ingredients	CASRN	LC-50	LD-50	CARCINOGENICITY	EPIDEMIOLOGY	REPRODUCTIVE DATA	NEUROTOXICITY	MUTAGENICITY
1,1,1,2-tetrafluoroethane	811-97-2	1500 gm/m ³ /4H/rat	Not available	No data	No data	No data	No data	No data
1-bromopropane	106-94-5	253 gm/m ³ /30 min. rat	2530 mg/kg mouse	No data	No data	Note 1	Note 2	No data
n-propanol	71-23-8	49000 mg/m ³ /mouse	1900 mg/kg rat	ACGIH "A3" - no other listings including California	Note 3	Note 4	No Data	No data

Notes for 1-bromopropane:

Note	Type of Test	Route of Exposure	Species Observed	Dose Data	Sex/Duration	Toxic Effects
1*	TCLo Lowest published toxic concentration	Inhalation	Rat	821 ppm / 8H	Male 12 weeks pre-mating	Reproductive – paternal effects - spermatogenesis

Reference SAIBGL Sangyo Igaku. Japanese Journal of Industrial Health. (Nippon Sangyo Eisei Igakkai, Kosu Eisei Bldg., 1-29-8, Shinjuku, Shinjuku-ku, Tokyo 160, Japan v.1-1959)

2*	TDLo – Lowest published toxic dose	Inhalation	Rat	400 ppm	8H/12W (intermittent)	Peripheral Nerve and Sensation – structural change in nerve or sheath
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Reference TOXID9 Toxicologist. (Soc. Of Toxicology, Inc. 475 Wolf Ledge Parkway, Akron, OH 44311) V.1 - 1981

*RTECS Number TX4110000

Notes for n-propanol

Note	Type of Test	Route of Exposure	Species Observed	Dose Data	Sex/Duration	Toxic Effects
3**	TDLo – Lowest published toxic dose	Oral	Rat	50000 mg/kg	81 W (intermittent)	Tumorigenic – carcinogenic by RTECS criteria – Liver tumors – Blood - leukemia

Reference ARGEAR Archiv fuer Geschwulstforschung. (VEB Verlag Volk und Gesundheit Neue Gruenster. 18, Berlin DDR-1020, Ger. Dem. Rep.) V.1 - 1949

4**	TCLo – Lowest published toxic concentration	Inhalation	Rat	10000 ppm	Female/7H/1-19 days after conception	Embryo or Fetus – death, Developmental Abnormalities – musculoskeletal system
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Reference FCTOD7 Food and Chemical Toxicology. (Pergamon Press Inc. Maxwell House, Fairview Park, Elmsford, NY 10523) V.20-1982

** RTECS Number: UH8225000



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Section 12 • Ecological Information

General Product Information

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

Ecotoxicity:

Ingredients	CAS RN	Test	Species	Results
1-bromopropane	106-94-5	96-hour LC ₅₀	Pimephales promelas (fathead minnow)	67.3 mg/L
n-propanol	71-23-8	96-hour LC ₅₀	Pimephales promelas (fathead minnow)	4480 mg/L

Persistence / Degradability: Only slightly biodegradable

Bioaccumulation / Accumulation: No bioaccumulation potential

Mobility in Environment: Semi-volatile. Readily absorbed into soil.

Other adverse effects: None known.

Section 13 • Disposal Considerations

Waste Status: For all "non-empty" aerosols (pressurized and containing at least 2.54 cm of liquid), the RCRA hazardous waste number is D003. Non-aerosols, as sold, are not considered hazardous wastes under RCRA.

Disposal: Waste must be disposed of in accordance with federal, state, provincial, 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.



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Section 14 • Transport Information

Aerosol Packaging Only

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:	N/A	Classification code:	5TF
	Name and Description:	AEROSOLS, toxic, flammable	Hazard ID no:	N/A
	Labeling:	6.1, 2.1		
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:	NA
	Labelling:	Non-flammable Gas		

All forms of bulk packaging (non-aerosol) for this product are not regulated for transport.

Section 15 • Regulatory information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D003 (aerosol only)

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): None

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 (aerosols only)

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): No individual section 313 component is present at or above 1%.

Section 112 Hazardous Air Pollutants (HAPs): None



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State Regulations

California: This product contains chemical(s) known to the State of California to cause reproductive toxicity.

New Jersey Right to Know:

Aerosol: 1-bromopropane 106-94-5 • n-propanol 71-23-8 • Carbon dioxide 124-38-9 •

1, 2-butylene oxide 106-88-7 • t-butanol 75-65-0

Bulk: 1-bromopropane 106-94-5 • n-propanol 71-23-8 • 1, 2 butylene oxide 106-88-7 • t-butanol 75-65-0 •

Acetonitrile 75-05-8

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:

Aerosol: Class A, Class D2B

Bulk: 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# 10719 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III		NFPA Flammability Health 2 1 0 Reactivity
	Health:	2	Health:	2*	
	Flammability:	1	Flammability:	1	
	Reactivity	0	Physical Hazard: aerosol	2	
Physical Hazard: bulk			0		

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