MATERIAL SAFETY DATA SHEET
LPS® Instant Super Degreaser

Revision Date: 1/4/2011 **Supercedes: 12/29/2010**

Section 1 • Product and Company Identification

Product Name: LPS® Instant Super Degreaser

Part Number: 00719/00720 (aerosol), 07128, 00705, 00755, C00719/C00720 (aerosol), 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: USA & Canada: 1 800 241-8334
Outside USA and Canada 1 770-243-8800

FAX: USA & Canada: 1 800 543-1563
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Outside USA and Canada: +1 (703) 527-3887

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 will not 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, do not 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. Do not 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 will not produce fumes in any great quantity, (do not spray LPS® Instant Super Degreaser for extended periods without adequate ventilation). If you are 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 is not a concern, but do not 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.

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: Harmful or fatal if swallowed. Vapor Harmful. Contents under pressure. HARMFUL if inhaled.

Bulk: DANGER: Harmful or fatal if swallowed. Vapor Harmful. HARMFUL if inhaled.

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. Low order of toxicity. May cause mild nausea and abdominal discomfort

Potential Chronic Health Effects:

Carcinogenic Effects: **NTP:** No **IARC:** No **OSHA:** No **ACGIH:** No

Mutagenic Effects: None

Teratogenic Effects: None

Target Organs: 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).

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%

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, carbon dioxide, hydrogen fluoride, hydrogen bromide.

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 CO_2, water spray, fog or foam. Cool containing vessels with water to prevent pressure build-up, auto ignition or explosions.

Sensitivity to Impact: None **Sensitivity to Static Discharge:** No

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.

Section 6 – Accidental Release Measures

Containment Procedures	**Small Spill and Leak:**	Absorb with an inert material and dispose of properly.
	Large Spill and Leak:	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	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	Ventilate area. Wear appropriate protective equipment during cleanup.	

Section 7 • Handling and Storage

Handling: Do not allow material to come into contact with eyes or skin. Wear appropriate protective equipment during handling. Keep container closed. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash thoroughly after handling.Avoid spraying large quantities of material into live electrical motors and other such equipment.

Storage: Keep container in a cool, well-ventilated area. Store between 40°F (4.4°C)-120°F (49°C).

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 (aerosol only)	124-38-9	5000 ppm	Not Established	5000 ppm	30000ppm	5000 ppm TWA 30000 ppm STEL

* Supplier Recommendation

16BEngineering Controls: Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

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 Use chemical resistant gloves (i.e., PVA or Laminate Film 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 If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e., organic vapor cartridge).

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

Section 9 • Physical and Chemical Properties

Appearance:	Liquid	**Color:**	Clear
Odor:	Strong	**Evaporation Rate:**	6 (BuAc=1)
Solubility Description:	3-5% in water	**Flash Point:**	None
Boiling Point:	70.2°C (158°F)	**Flash Point Method:**	TCC
Specific Gravity (H2O=1):	1.29 – 1.31 @ 20ºC	**Decomposition Temperature:**	Not Established
Vapor Density (air = 1):	~4.3	**Auto ignition temperature:**	>490°C (914°F)
Vapor Pressure:	> 100mmHg @ 20°C	**Flammable limits (estimated):**	LOWER: 4.0% UPPER: 8.0%
Rule 1171 PPc:	> 100mmHg @ 20°C	**Partition Coefficient (octanol/water):**	< 1
V.O.C. Content:	Aerosol: 96.5%,1246g/L,10.4lb/gal Per CARB / OTC /EPA Regulations Bulk: 100%,1291g/L,10.8lb/gal Per CARB / OTC /EPA Regulations	**Odor Threshold:**	Not Established
Melting Point:	Not Established	**Viscosity:**	Not Established
pH:	Not Applicable	**Volatiles:**	100%
Heat of combustion:	Aerosol: 16 kJ/g Bulk: Not Established		

Section 10 • Stability and Reactivity

Chemical Stability: Product is stable under recommended storage conditions.

Conditions to Avoid: Keep away from ignition sources and extreme temperatures.

Incompatibility: 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: These products are carbon oxides (CO, CO2),and hydrogen bromide

Hazardous Polymerization: Will not occur.

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.

B: Component Analysis

Ingredients	CASRN	LC-50	LD-50
1-bromopropane	106-94-5	253 g/m^3/rat/30min	4260mg/kg/oral/rat
n-propanol	71-23-8	48 g/m^3/mouse	1870mg/kg/oral/rat 4060mg/kg/dermal/rabbit
Carbon dioxide (aerosol only)	124-38-9	470000 ppm/rat/30min	Not Applicable

* Supplier Data

Notes for 1-bromopropane:

Type of Test	Route of Exposure	Species Observed	Dose Data	Sex/Duration	Toxic Effects
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)

TDLo – Lowest published toxic dose	Inhalation	Rat	400 ppm	8H/12W (intermittent)	Peripheral Nerve and Sensation – structural change in nerve or sheath

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 Gesunchheit 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

Reference FCTOD7 Food and Chemical Toxicology. (Pergamon Press Inc. Maxwell House, Fairview Park, Elmsford, NY 10523) V.20-1982

**** RTECS Number: UH8225000**

Section 12 • Ecological Information

Mobility:	Semi-volatile. Readily absorbed into soil.	**Persistence and degradability:**	Slightly biodegradable.
Bioaccumulative potential:	No bioaccumulation potential	**Other adverse effects:**	None known

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

Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	1-bromopropane	106-94-5	96-hour LC_{50}	Pimephales promelas	67.3 mg/L
	n-propanol	71-23-8	96-hour LC_{50}	Pimephales promelas	4480 mg/L
Acute Toxicity on Daphnia	No Data Available				
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					

Section 13 • Disposal Considerations

Waste Status: In its purchased form, non-aerosol material does not meet the definition of a RCRA hazardous waste. Aerosol cans, 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.). However, if disposed of in its received form, an aerosol carries waste code D003. (U.S.)

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.

Section 14 • Transport Information

Aerosol

D.O.T. Ground	**Shipping Name:**	ORM-D	**UN no:**	NA
	Hazard Class:	NA	**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:**	2.2
	Shipping Name:	Aerosols	**Subsidiary Risk:**	NA
	Labeling:	2	**Packing group:**	NA
	Packing Instruction:	P003, LP02	**EmS:**	F-D, S-U
	Marine pollutant:	NO	**Technical Name:**	NA
IATA-ICAO	**UN no:**	1950	**Class:**	2.2
	Shipping Name:	AEROSOLS, non-flammable	**Subclass**	NA
	Packing instructions:	203, Y203 (Ltd. Qty)	**Packing group:**	NA
	Labeling:	Non-flammable Gas	**Technical Name:**	NA

Bulk versions of this product are not regulated by any mode of transportation.

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), 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): None

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

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

California and OTC States: Not for Retail Sale. Note to customers in any jurisdiction adopting CARB or OTC Model rules for consumer products: This product is sold to and is to be used exclusively by establishments which manufacture ot construct goods or commodities.

New Jersey RTK:
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

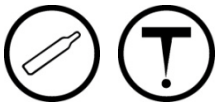
Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

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

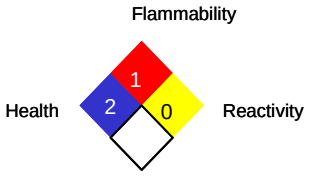
Montreal Protocol listed ingredients:	None.
Stockholm Convention listed ingredients:	None.
Rotterdam Convention listed ingredients:	None.
RoHS Compliant:	Yes.

Section 16 • Other Information

MSDS# 10719
LPS® Instant Super Degreaser
Responsible Name:
Clea George
Regulatory Affairs Coordinator
Telephone: +1 770 243-8800

HMIS 1996		HMIS III	
Health:	2	Health:	2*
Flammability:	1	Flammability: aerosol	2
		Flammability: bulk	1
Reactivity	0	Physical Hazard: aerosol	2
		Physical Hazard: bulk	0

NFPA



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