

LPS LABORATORIES **MSDS** MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name: LPS Laboratories

Address (Number Street): 4647 Hugh Howell Road

Address (City, State, Zip): Tucker, GA 30085-5052

Telephone Number: 770-934-7800 **Emergency Telephone Number:** 1-800-424-9300 Chemtrec, Outside U.S.: (703) 527-3887

Trade Name: LPS Power Blast Duster

Chemical Family: Halogenated Hydrocarbon

Part Numbers: 05712

HMIS Labeling:

TSCA Inventory: All of the ingredients are listed on the TSCA inventory.

Health:

Reactivity:

Flammability: 0

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Hazardous Materials Description and proper shipping name (49 CFR 172.101): Compound, Boiler, Preserving Liquid NMFC 50093 SUB 2 BRL/BXS CL55

CONSUMER COMMODITY ORM-D

Section 2 - Hazardous Ingredients / Identity Information

				ACGIH	OTHER
Ingredients	CAS Numbers	%WW	OSHA PEL	TLV	LIMITS
1,1,1,2-Tetrafluoroethane	811-97-2	90-100%	NE	NE	1,000 ppm WEEL*

Recommend Workplace Environmental Exposure Level (WEEL) Established by American Industrial Hygiene Association (8-Hour Time Weighted Ave.)

Section	3 - Physical /	Chemical	Characteristics	

Boiling point (F^o): -15.7° Specific gravity (H20 = 1): 1.21 Vapor pressure @ 25°C : Percent volatile by volume (%): 100 96 psia Vapor density (Air = 1): 3.6 Appearance/odor: Clear, colorless liquified gas with mild, ethereal odor. Solubility in water (% by weight): 0.15 @ 77° F/14 psia

Section 4 - Fire and Explosion Hazard

Flash point (method used): None TCC. Flammable limits: LEL: N.A. UEL: N.A. Extinguishing media: Use water spray or fog, CO2, dry chemical, or water stream. Special fire fighting procedures: Fire fighters should wear self-contained breathing apparatus approved by NIOSH due to toxicity of thermal decomposition products. Use water spray to keep containers cool. Unusual fire and explosive hazards: Intensive heat created by fire will cause aerosols to burst.

Primary route(s) of entry: Inhalation, skin.

Health hazard/effects of over exposure:

Inhalation:	Respiratory irritation. High vapor concentrations including an oxygen deficient atmosphere
	in enclosed areas can affect the nervous system, and can cause headache, dizziness, drowsiness, unconsciousness, and death. In susceptible individuals, cardiac sensitization can result in
	potentially fatal heartbeat irregularities.
Eyes:	Vapor and liquid can irritate eyes. May cause frostbite.
Skin:	Prolonged or repeated skin contact can cause defatting and drying of skin. Contact with
	rapidly volatilizing liquid or cold vapors can cause frostbite or freeze burns to any tissue due to the
	cryogenic (extreme low temperature) effect of the product.
Ingestion:	Unlikely due to volatile nature of product. Low order of of oral toxicity. Contact with
	liquid may cause frostbite to mouth and throat tissues.
Medical conditions a	ggravated by exposure: In persons with impaired cardiovascular function, inhalation of very high
	sult in cardiac arrhythmia.

Chemicals listed as potential carcinogen: NTP: No IARC: No OSHA: No Emergency and first aid procedures:

Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Give oxygen if
	breathing is difficult. Call a physician. Do not give adrenaline, epinephrine or similar drugs following
	exposure to this product.
Eyes:	Flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin:	Flush exposed skin with lukewarm water (not hot) - or use other means to warm skin
	slowly. Get medical attention if frostbitten by liquid or if irritation occurs.
Ingestion:	Do not induce vomiting, contact physician immediately.

Section 6 - Reactivity Data

Stability: Stable

Conditions to avoid: Avoid contact with open flame, electric arcs or other hot surfaces which can cause thermal decomposition.

Incompatibility (materials to avoid): Reacts violently with sodium, potassium, barium metal. Reacts with finely divided aluminum, zinc and magnesium. Strong oxidizers can accelerate decomposition.

Hazardous decomposition products: Thermal decomposition may yield hydrogen fluoride, carbon monoxide, carbon dioxide, and possibly carbonyl fluoride.

Hazardous polymerization: Will not occur.

Section 7 - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Aerosols should not produce large spills. For small spills, area should be ventilated and an absorbent used to pick up excess material. Place in closed container.

Waste disposal methods: Recovered liquid may be sent to licensed reclaimer or incinerator. Consult federal, state and/or local disposal authorities for approved procedures.

RCRA Hazardous Waste No.: N/A

CERCLA Reportable Quantity: None.

SARA TITLE III Chemicals: None

Precautions to be taken in handling and storage: Store aerosols below 120°F and above 32°F. Store all materials in dry, well-ventilated area away from ignition sources. Avoid breathing vapors and prolonged skin contact. Vapors are heavier than air. Do not store in direct sunlight.

Section 8 - Control Measures

Respiratory Protection: None required if good ventilation is maintained. If vapor concentration rises above TLV, use NIOSH approved organic vapor cartridge respirator. For large spills or emergencies in completely enclosed areas, use self - contained breathing apparatus.

Ventilation: Ventilate low lying areas where vapors may collect. Provide local exhaust if TLV is exceeded.

Protective gloves: Use synthetic rubber gloves such as neoprene. Lined gloves are recommended for protection from cold. **Eye protection:** For spraying or splashing of solvent, use face shield or goggles. Contact lenses should not be worn.

Other protective equipment: As necessary to prevent prolonged or repeated skin contact.

Work/hygienic practices: Wash hands with soap and water after use and/or before breaks, lunch and at the end of work periods. Remove contaminated clothing and launder before reuse.

Section 9 - Preparation Date of MSDS

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January 31, 2003 Fred Fugitt, Technical Services Chemist Ed Williams, Manager of Research and Development LPS Laboratories

Form # 2696 MSDS LPS Power Blast Duster

