

LPS LABORATORIES MSDS MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name: Trade Name:

LPS Laboratories LPS Dry Film PTFE Lubricant

Street Address: Chemical Family:

4647 Hugh Howell Road Halogenated Hydrocarbon

City, State, Zip: Part Numbers:

Tucker, GA 30085-5052 02616

Telephone Number: 770-934-7800 TSCA Inventory:

Emergency Telephone Number:All of the ingredients are listed on the TSCA inventory.

1-800-424-9300 Chemtrec, **Outside U.S.**: (703) 527-3887

Hazardous Materials Description and HMIS Labeling: Health:

proper shipping name (49 CFR 172.101): Flammability: 0
Compound, Boiler, Preserving Liquid NMFC 50093 SUB 2 BRL/BXS CL55 Reactivity: 1

CONSUMER COMMODITY ORM-D

Section 2 - Hazardous Ingredients / Identity Information

				ACGIH	OTHER
Ingredients C	CAS Numbers	%WW	OSHA PEL	TLV	LIMITS
Tetrafluoroethane	811-97-2	40-50	NE	NE	1,000 ppm**
Dimethyl Ether	115-10-6	40-50	NE	NE	1,000 ppm**
Isopropy Alcohol; Isopropanol	67-63-0	10-15	400 ppm	400 ppm	500 ppm STEL

**Supplier

Section 3 - Physical / Chemical Characteristics

Boiling point (F°):NESpecific gravity (H20 = 1):0.818Vapor pressure @ 20°C :NEPercent volatile by volume (%):99%Vapor density (Air = 1):>1Evaporation rate (Butyl Acetate = 1):>1

Solubility in water: ~15%

Appearance/odor: Translucent, white liquid with mild, ethereal odor.

Section 4 - Fire and Explosion Hazard

Flash point (method used): NE (Aerosol). Flammable limits: LEL: NE UEL: NE

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.

Section 5 - Health Hazard Data

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, cyanosis, unconsciousness, and death. In susceptible individuals, cardiac sensitization can result

in potentially fatal heartbeat irregularities.

Eyes: Vapor and liquid can irritate eyes.

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: Swallowing this material may result in nausea, vomiting, and weakness followed by central

nervous system depression.

Medical conditions aggravated by exposure: In persons with impaired cardiovascular function, inhalation of very high

concentrations may result in cardiac arrhythmia.

Chemicals listed as potential carcinogen: NTP: No IARC: No OSHA: No

Emergency and first aid procedures:

Inhalation: Remove to fresh air. Call a physician. Give oxygen if indicated.

Eyes: Flush eyes with plenty of water. Get medical attention. **Skin:** Wash with soap and water. Get medical attention

Ingestion: Do not induce vomiting, contact physician immediately. If conscious give one or two glasses of

water to drink.

Note to physician: Product can cause cardiac muscle sensitization. Do not give adrenaline or similar drugs.

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 traces of 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: Evacuate the area, ventilate and avoid breathing vapors. Contain the spill. Remove leaking container and transfer product to another vessel. Clean up area by mopping or soak up with absorbent material. Place in closed containers. Do not flush to sewer.

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.

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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