LPS LABORATORIES
MSDS
MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name:
LPS Laboratories

Street Address:
4647 Hugh Howell Road

City, State, Zip:
Tucker, GA 30085-5052

Trade Name:
LPS Electro Contact Cleaner

Chemical Family:
Halogenated Hydrocarbon

Part Numbers:
00416

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

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

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

HMIS Labeling:

Health:	1
Flammability:	1
Reactivity:	0

Section 2 - Hazardous Ingredients / Identity Information

Ingredients	CAS Numbers	%WW	OSHA PEL	ACGIH TLV	OTHER LIMITS
Perfluoro Compounds	86508-42-1	20-40	NE	NE	NE
(Nonafluorobutyl) Methyl Ether	163702-07-6	5-30	NE	NE	600 ppm TWA**
(Nonafluoroisobutyl) Methyl Ether	163702-08-7	5-30	NE	NE	600 ppm TWA**
Trans-1,2-Dichloroethylene	156-60-5	5-10	200 ppm	NE	75 ppm TWA**
Methylcyclohexane	108-87-2	1-5	400 ppm	400 ppm	NE
Isopropanol; Isopropyl alcohol	67-63-0	1-5	400 ppm	400 ppm	500 ppm STEL
Tetrafluoroethane (aerosol only)	811-97-2	20-30	NE	NE	1,000 ppm WEEL

Section 3 - Physical / Chemical Characteristics

Boiling point (F°):	118°	**Specific gravity (H_20 = 1):**	1.39
Vapor pressure (mmHg) @ 20° C :	190 mm Hg	**Percent volatile by volume (%):**	100
Vapor density (Air = 1):	NE	**Evaporation rate (Butyl Acetate = 1):**	> 1
Solubility in water:	Negligible		
Appearance and odor:	Clear, colorless liquid with sweet odor.		

N.E. = Not established
N.A. = Not applicable

Section 4 - Fire and Explosion Hazard

Flash point (method used): None TCC **Flammable limits:** **LEL:** NE **UEL:** NE
Extinguishing media: Use water spray or fog, CO_2, 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. Although this product has no flashpoint, it does exhibit some enhancement of flames during its evaporation. **Do not use on energized equipment or equipment in use, and allow to dry before restart.**

Section 5 - Health Hazard Data

Primary route(s) of entry: Inhalation, eyes.
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.
Eyes: Vapor and liquid can irritate eyes.
Skin: Prolonged or repeated skin contact can cause defatting and drying of skin.
Ingestion: Ingestion of this material may result in nausea, vomiting, and weakness followed by central nervous system depression.

Medical conditions aggravated by exposure: None known at this time.
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.

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, hydrogen chloride, chlorine, carbon monoxide, and carbon dioxide.
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.: NA
CERCLA Reportable Quantity: 1,000 lb.
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. Prolonged contact with aluminum parts in a pressurizable fluid system may cause violent reactions.

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. 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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Fred Fugitt, Technical Services Chemist
Ed Williams, Manager of Research and Development
LPS Laboratories

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