



**LPS LABORATORIES**  
**MSDS**  
**MATERIAL SAFETY DATA SHEET**

**Section 1 - Product Identification and Use**

**Manufacturer's Name:**  
LPS Laboratories

**Trade Name:**  
LPS No Flash NU Electro Contact Cleaner

**Street Address:**  
4647 Hugh Howell Road

**Chemical Family:**  
Halogenated Hydrocarbon

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

**Part Numbers:**  
04015

**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):**

Aerosol: CONSUMER COMMODITY ORM-D                      NMFC 50093 SUB 2 BRL/BXS CL55

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

**HMIS Labeling:**

Health:	2
Flammability:	1
Reactivity:	0

**Section 2 - Hazardous Ingredients / Identity Information**

Ingredients	CAS Numbers	%WW	OSHA PEL	ACGIH TLV	OTHER LIMITS
1- bromopropane	106-94-5	30-40	NE	NE	100 ppm Supplier
n-Propyl alcohol	71-23-8	1-5	200 ppm	200 ppm	250 ppm STEL
Tetrafluoroethane	811-97-2	60-70	NE	NE	1,000 ppm STEL

**Section 3 - Physical / Chemical Characteristics**

<b>Boiling point (F°):</b>	NE	<b>Specific gravity (H<sub>2</sub>O = 1):</b>	1.304 (Conc. )
<b>Vapor pressure ( mmHg) @ 20°C :</b>	NE	<b>Percent volatile by volume (%):</b>	100
<b>Vapor density (Air = 1):</b>	NE	<b>Evaporation rate (Butyl Acetate = 1):</b>	> 1
<b>Solubility in water:</b>	Slightly soluble		
<b>Appearance and odor:</b>	Clear, colorless liquid with strong odor.		

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

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## Section 4 - Fire and Explosion Hazard

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**Flash point (method used):** None - Flame Extension      **Flammable limits:**    LEL: 4.0      UEL: 8.0

**Extinguishing media:** Use water spray or fog, CO<sub>2</sub>, 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.**

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## Section 5 - Health Hazard Data

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**Primary route(s) of entry:** Inhalation, eyes, skin

**Health hazard/effects of over exposure:**

**Inhalation:** Not expected to be acutely toxic. May irritate the nose, throat, and lungs. Exposure to high concentrations may cause depression of the central nervous system. ( anesthetic- like effects )

**Eyes:** Vapor can irritate eyes.

**Skin:** Prolonged or repeated skin contact can cause defatting and drying of skin. Skin absorption is possible upon prolonged contact.

**Ingestion:** Not expected to be acutely toxic. If product is aspirated into lungs, chemical pneumonia can result.

**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. If breathing has stopped , give artificial respiration . Get medical attention.

**Eyes:** Flush eyes with plenty of water. for at least 15 minutes. Get medical attention.

**Skin:** Wash with soap and water: apply medicated skin cream.

**Ingestion:** Do not induce vomiting. Contact physician immediately.

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## Section 6 - Reactivity Data

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**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):** Strong alkalis, oxidizers, and reactive metals( ie potassium, sodium etc. )

**Hazardous decomposition products:** Hydrogen fluoride, hydrogen bromide, bromine, and oxides of carbon and nitrogen.

**Hazardous polymerization:** Will not occur.

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## Section 7 - Precautions for Safe Handling and Use

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**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:** Dispose of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable federal, state and/or local regulations.

**RCRA Hazardous Waste No.:** NA

**CERCLA Reportable Quantity:** NA

**SARA TITLE III Chemicals:** None

**Precautions to be taken in handling and storage:** Store in a cool, dry, well-ventilated area. Store aerosols below 120°F and above 32°F.

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## Section 8 - Control Measures

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**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:** Do not use in closed or confined spaces. Use mechanical ventilation to maintain exposure levels below TLV.

**Protective gloves:** Use solvent resistant gloves.

**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 laundry before reuse.

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## Section 9 - Preparation Date of MSDS

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June 28, 2000

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**ITW**

Form # 2684

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