



LPS LABORATORIES
WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM
MATERIAL SAFETY DATA SHEET

Section 1 - Product Identification and Use

Manufacturer's Name:
LPS Laboratories

Product Identifier:
LPS Revo 66 Contact Cleaner

Address (Number Street):
4647 Hugh Howell Road

Product Use: Nonflammable cleaner alternative to HCFC's and 1-bromopropane for fine parts.

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

Part Numbers:
C04416

Telephone Number: 770-243-8800

Packaging:
Aerosol (340 grams)

Emergency Telephone Number:
1-613-996-6666 CANUTEC

WHMIS Classification:
Class A, Class D Division 2B

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.

Section 2 - Hazardous Ingredients

Ingredients	CAS Numbers	%WW	LC 50	LD 50	TLV
Trans-1,2-Dichloroethylene	156-60-5	50-70	n.av.	n.av.	200 ppm
Isopropanol	67-63-0	1-5	12,000 ppm/ 8 hrs/ inhalation/rat	6 g/kg	400 ppm
1,1,1,2-Tetrafluoroethane	811-97-2	20 - 40	567,000 ppm/ 4 hrs/ inhalation/rat	n.av.	1,000 ppm

Section 3 - Physical Data

Boiling point (0 C°):	n.av.	Specific gravity (H2O = 1):	1.2 – 1.3
Vapor pressure (mmHg) @ 38°C :	n.av.	Evaporation rate (Water = 1):	>1
Vapor density (Air = 1):	n.av.	Freezing Point (C°):	n.av.
Coefficient of water/oil distribution:	< 1.0	pH:	n.ap.
Physical State:	Liquid	Solubility in water (%):	<5%
Odor/Color: Clear, colorless with mild, ethereal odor		Percent volatile by volume (%):	100
Odor Threshold (ppm):	n.av.		

Section 4 - Fire and Explosion Hazard

Flammability: Yes ___ No X **Flash point (method used):** Nonflammable

Flammable limits : LEL n.ap. UEL n.ap.

Autoignition Temperature: n.av.

Extinguishing media: Use water spray or fog, CO2, dry chemical or water stream.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, hydrogen fluoride, hydrogen chloride and chlorine.

Sensitivity to static discharge: None **Sensitivity to impact:** None

Special hazards (including explosion data): Excessive heat created by fire will cause aerosols to burst.

n.av. = not available
n.ap. = not applicable

Section 5 - 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, and 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, carbon dioxide, carbon monoxide, and chlorine.

Hazardous polymerization: Will not occur.

Reactivity and under what conditions: None known at this time.

Section 6 - Toxicological Properties

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

Exposure Limits: Not established

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, and drowsiness.

Eyes: Liquid will cause irritation.

Skin: Drying and defatting of skin.

Ingestion: Not a likely route of exposure. Ingestion may result in nausea, abdominal discomfort, or diarrhea.

Chronic effects of exposure: None known.

Carcinogenicity: None known at this time.

Medical conditions aggravated by exposure: None known.

Other toxicological properties (including reproductive toxicity, synergistic effects, sensitization, teratogenicity, mutagenicity): None known.

Section 7 - Preventative Measures

Personal Protection:

Hands: Protective gloves. Use solvent resistant synthetic rubber gloves . Lined gloves are recommended for protection from cold.

Eyes: For spraying or splashing of solvent, use face shield or goggles. Contact lenses should not be worn.

Respiratory: 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.

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

Procedures to be followed in case of leak or spill: Evacuate area, ventilate and avoid breathing vapors. Contain 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: Dispose of in accordance with municipal, provincial, and federal regulations. Recovered liquid may be sent to licensed reclaimer or incinerator. Do not incinerate aerosols. Do not flush to the sewer.

Handling and Storage Procedures: Store aerosols below 50°C and above 0°C. Store all materials in dry, well-ventilated area away from ignition sources. Avoid breathing vapors and prolonged skin contact. Vapors are heavier than air.

H.M.I.S. Labeling: **Health:** 1 **Fire:** 1 **Reactivity:** 0

N.F.P.A. Labeling: **Health:** 1 **Fire:** 1 **Reactivity:** 0

Section 8 - First Aid Measures

Inhalation: Move to fresh air and provide oxygen if breathing is difficult.

Eyes: Flush eyes with plenty of water. If irritation persists, contact physician.

Skin: Wash with soap and water.

Ingestion: Give two glasses of water and call a physician immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Section 9 - Preparation Date

The foregoing technical information and recommendations are compiled from sources that are believed to be accurate and reliable. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The purchaser is responsible for selecting and determining the suitability of products for purchaser's particular needs and we disclaim any responsibility for improper applications or misuse of our products in any manner whatsoever.

March 13, 2007
Ed Williams, Technical Manager
LPS Laboratories

Form # 2959
WHMIS LPS Revo 66 Contact Cleaner

