

REC'D AUG 04 1998

MATERIAL SAFETY DATA SHEET

5948
SOV00009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Electrical Contact and Parts Cleaner
 Item No.: 25791
 Product Type: Aerosol Cleaner

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Isohexane	107-83-5	80-85
ISOPROPYL ALCOHOL	67-63-0	10-15
CARBON DIOXIDE	124-38-9	3-5
n-HEXANE*	110-54-3	3-5

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Isohexane	500 ppm	500 ppm	None
ISOPROPYL ALCOHOL	400 ppm TWA 983 mg/m3	400 ppm TWA 980 mg/m3	400 ppm TWA DuPont AEL
CARBON DIOXIDE	5,000 ppm TWA 9,000 mg/M3	10,000 ppm TWA 18,000 mg/M3	None
n-HEXANE	50 ppm TWA 176mg/M3	50 ppm TWA 180mg/M3	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
Isohexane	1000 ppm	1000 ppm
ISOPROPYL ALCOHOL	500 ppm 1230 mg/m3	500 ppm 1225 mg/m3
CARBON DIOXIDE	30,000 ppm 54,000 mg/M3	30,000 ppm 54,000 mg/M3

3. HAZARDS IDENTIFICATION

Toxicity: Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Prolonged and repeated exposure to hexane may cause damage to nerve tissue of the arms and legs (peripheral neuropathy), resulting in muscular weakness and loss of sensation. This effect may be increased by the presence of methyl ethyl ketons. Prolonged overexposure to solvent ingredients in Section II may cause adverse to the liver, urinary and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Primary Routes of Entry: Exposure may be by inhalation and/or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Signs and Symptoms of Exposure: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Isohexane	IRR	NO	NO	NO
ISOPROPYL ALCOHOL	ALG CNS IRR	NO	N/A	NO
CARBON DIOXIDE	CNS DEV	NO	NO	NO
n-HEXANE	DEV IRR NER REP	NO	NO	NO

Abbreviations

N/A Not Applicable
 CNS Central nervous system
 IRR Irritant
 ALG Allergen
 DEV Developmental
 NER Nervous System

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Product Name: Electrical Contact and Parts Cleaner
Item No.: 257913. HAZARDS IDENTIFICATION

(continued)

REP Reproductive

59484. FIRST AID MEASURES

Ingestion: Never give anything by mouth to an unconscious person. Give conscious patient several glasses of water. Do not induce vomiting. Seek medical attention.

Inhalation: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse.

Eye Contact: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: -15 °F Method: Tag closed cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Hazardous Products formed by Fire or Thermal Decomposition:
Unusual Fire or Explosion Hazards:

Irritating organic vapors; oxides of carbon.

Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Explosive Limits:
(% by volume in air) Lower 1.0%
(% by volume in air) Upper 12.7%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Remove sources of ignition. Maintain good ventilation. Soak up with an inert absorbent. Store in a closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

(Contact Loctite Customer Handling:

Service 1-800-243-4874 for shelf life information) Keep away from heat, sparks or open flame. Vapors will accumulate readily and may ignite explosively. Keep away from eyes.

Avoid breathing of vapor and mists. Avoid skin contact. During use and until all vapors are gone: Keep area ventilated. Do not smoke, Extinguish all flames, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and other sources of ignition. Consult NFPA Code. Use approved bonding and grounding procedures. Do not puncture, incinerate, or expose to temperature above 120 F. Heat from sunlight radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Wash hands after using.

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Eyes: Wear safety spectacles with unperforated sideshields.

Skin: Rubber or plastic gloves.

Ventilation: Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Respiratory: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor: Aliphatic

Boiling Point: Range: -109°F to 181°F.

pH: Does not apply

Solubility in Water: Not available

Specific Gravity: 0.678 (Base only)

Volatile Organic Compound (EPA Method 24) 100%; 678 grams per liter of material (Less Federally exempt solvents)

Vapor Pressure: Not available

Vapor Density: More than 1 (base only)

Evaporation Rate (Ether = 1) Faster

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: None

Conditions to Avoid: Not available

Hazardous Decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate liquid obtained by spray-emptying cans following EPA and local regulations. Do not puncture or incinerate pressurized cans.

EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity
Hazard Class or Division: ORM-D
Identification Number: None
Marine Pollutant: None

IATA
Proper Shipping Name: Consumer Commodity
Class or Division: Class 9
UN or ID Number: ID 8000

15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer.

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16. OTHER INFORMATION

Estimated NFPA(R) Code:
 Health Hazard: 2
 Fire Hazard: 3
 Reactivity Hazard: 0
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:
 Health Hazard: 2*
 Flammability Hazard: 3
 Reactivity Hazards: 0
 Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
 HMIS is a registered trademark of the National Paint and Coatings Assn.

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