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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Non-Flammable Electrical Contact Cleaner
Product type: Cleaner
Company address: Henkel Loctite Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067
Telephone: (860) 571-5100
Emergency telephone: (860) 571-5100
Item number: 24379
Region: United States

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: Hazardous components, %, ACGIH TLV, OSHA PEL, OTHER. Rows include Carbon dioxide and Dichorofluoroethane.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMSI:

Physical state: Liquid
Color: Colorless
Odor: Ether-like, Sweet
HEALTH: 2
FLAMMABILITY: 0
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

CAUTION: CONTENTS UNDER PRESSURE. HARMFUL IF INHALED.

Relevant routes of exposure: Inhalation, Skin contact, Eye contact

Potential Health Effects

Inhalation: Harmful by inhalation. Vapors and mists will irritate nose and throat and possibly eyes. Dizziness. Headache.
Skin contact: Moderate skin irritation.
Eye contact: Moderate eye irritation. Redness.
Ingestion: May be harmful if swallowed.

Existing conditions aggravated by exposure: Respiratory disorders. Skin disorders.

See Section 11 for additional toxicological information.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Wash with soap and water. For lesser exposure, seek medical attention if irritation develops or persists after area is washed. Wash clothing before reuse.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Drink water as a precaution. Obtain medical attention.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	Does not flash
<b>Flammable/Explosive limits-lower %:</b>	Not available
<b>Flammable/Explosive limits-upper %:</b>	Not available
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
<b>Unusual fire or explosion hazards:</b>	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
<b>Hazardous combustion products:</b>	Irritating organic fragments. Oxides of carbon. Oxides of nitrogen. Hydrochloric acid. Hydrofluoric acid

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Advise authorities if product has entered or may enter seweres, water sources or extensive land areas.
<b>Clean-up methods:</b>	Remove all ignition sources. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Do not puncture or incinerate containers. Do not wear contact lenses. Avoid contact with skin and eyes. Use only in area provided with appropriate exhaust ventilation.
<b>Storage:</b>	Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).
<b>Incompatible products:</b>	Strong acids or bases. Oxidizing agents.

For information on product shelf life contact Henkel Loctite Customer Service at (800) 243-4874.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	General ventilation is acceptable if the exposure to materials in section 2 is maintained below applicable exposure limits. Refer to OSHA standards 1910.94, 1910.107, 1910.108 Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
<b>Respiratory protection:</b>	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH for protection against materials in Section 2.

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**Skin protection:** Chemical resistant, impermeable gloves.

**Eye/face protection:** Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid  
**Color:** Colorless  
**Odor:** Ether-like, Sweet  
**Vapor pressure:** greater than 500 mm Hg  
**pH:** Not applicable  
**Boiling point/range:** Less than -17.7 to 32°C (0 to 90°F)  
**Melting point/range:** Not available  
**Specific gravity:** 1.23  
**Vapor density:** 4.1  
**Evaporation rate:** Not available  
**Solubility in water:** Slightly soluble  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** Essentially Zero (Exempt Compounds)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous polymerization:** Will not occur.

**Hazardous decomposition products:** None reasonably foreseeable

**Incompatibility:** Strong acids and strong bases. Strong oxidising agents Alkali metals Reactive metals.

**Conditions to avoid:** Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Carbon dioxide	No	No	No
Dichlorofluoroethane	No	No	No

### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Carbon dioxide	Central nervous system
Dichlorofluoroethane	Cardiac, Central nervous system, Irritant, Reproductive, Skin

## 12. ECOLOGICAL INFORMATION

**Ecological information:** No specific studies have been conducted by Loctite on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of in accordance with Federal, State and local regulations.

**EPA hazardous waste number:** Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

**U.S. DOT 49 CFR:**

**Proper shipping name:** Consumer commodity  
**Hazard class or division:** ORM-D  
**Identification number:** None  
**Packing group:** None

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Aerosols, non-flammable  
**Hazard class or division:** 2.2  
**Identification number:** UN 1950  
**Packing group:** None

**WaterTransportation (IMO/IMDG):**

**Proper shipping name:** Not available  
**Hazard class or division:** Not available  
**Identification number:** Not Available  
**Packing group:** Not available  
**Marine pollutant:** Not available

### 15. REGULATORY INFORMATION

**United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
**TSCA 12 (b) Export Notification:** Not available

**CERCLA/SARA Section 302 EHS:** Not available  
**CERCLA/SARA Section 311/312:** Not available  
**CERCLA/SARA 313:** Dichlorodifluoroethane (CAS# 1717-00-6).

**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Domestic Substances List.  
**WHMIS hazard class:** A, D.2.A, D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections:

Not available

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