



Revision Date: 12/01/2006

Issue date: 12/01/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Non-Flammable Electrical Contact Cleaner
Product type: Cleaner
Company address: Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 24379
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Dichlorofluoroethane 1717-00-6	60-100	None	None	500 ppm TWA, (WEEL)
Carbon dioxide 124-38-9	1-5	5000 ppm TWA 30000 ppm STEL	5000 ppm TWA exposures < 10,000 ppm to be cited de minimus 9000 mg/m ³ TWA	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

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

WARNING: 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

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

5. FIRE-FIGHTING MEASURES

Flash point:	Does not flash.
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not available
Flammable/Explosive limits-upper %:	Not available
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	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.
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Hazardous combustion products:	Irritating organic fragments. Oxides of carbon. Oxides of nitrogen. Hydrochloric acid. Hydrofluoric acid

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Advise authorities if product has entered or may enter sewers, water sources or extensive land areas.
Clean-up methods:	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

Handling:	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.
Storage:	Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).
Incompatible products:	Strong acids or bases. Oxidizing agents.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	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.
Respiratory protection:	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH.

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 oxidizing 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
Dichlorofluoroethane 1717-00-6	No	No	No
Carbon dioxide 124-38-9	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Dichlorofluoroethane 1717-00-6	Cardiac, Central nervous system, Irritant, Reproductive, Skin
Carbon dioxide 124-38-9	Central nervous system

12. ECOLOGICAL INFORMATION

Ecological information:

No specific studies have been conducted by Henkel 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. Department of Transportation Ground (49 CFR):

Proper shipping name: Aerosols, non-flammable
Hazard class or division: ORM-D 2.2
Identification number: UN 1950
Packing group: None
Exceptions: Aerosols, not more than 1 L - Consumer Commodity ORM-D

International Air Transportation (ICAO/IATA):

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

Water Transportation (IMO/IMDG):

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

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard
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: New Material Safety Data Sheet format.

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