



Revision Number: 001.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE® Nonflammable Electrical Contact Cleaner	IDH number:	1174633
Product type:	Cleaner	Item number:	1174633
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone: CHEMTREC		
	1-800-424-9300 (toll free) or 1-703-527-3887		
	Internet: www.henkelna.com		

This product contains a component that is regulated under a Significant New Use Rule (SNUR) by the EPA. The SNUR, regulated by TSCA, is presented at 40 CFR 721.90(a)(1), (b)(1) and (c)(1) for manufacturing, processing and use.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Aerosol, liquid	HEALTH:	2
Color:	Colorless	FLAMMABILITY:	0
Odor:	characteristic	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8

WARNING: CONTENTS UNDER PRESSURE.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
VAPOR HARMFUL.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation:	Vapors and mists will irritate nose and throat and possibly eyes. Extreme overexposure may result in unconsciousness and possibly death. Irritates the nose, throat and respiratory system. Exposure to high doses may cause central nervous system depression. Such doses may also cause adverse effects in the liver, kidneys, and lungs.
Skin contact:	Prolonged or repeated contact may cause irritation. Prolonged or repeated contact has caused severe dermatitis including blisters, cracking, edema and redness.
Eye contact:	Liquid or vapor can cause moderate to severe irritation.
Ingestion:	Not expected under normal conditions of use. Harmful if swallowed.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders. Kidney disorders.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Pentane, 1,1,1,2,2,3,3,4,4,5,5,5-decafluoro-	138495-42-8	30 - 60
Norflurane	811-97-2	30 - 60
trans-dichloroethylene	156-60-5	10 - 30

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If adverse health effects develop seek medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothes. If symptoms develop and persist, get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	Not flammable by flame extension method.
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 firefighting 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.
Unusual fire or explosion hazards:	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
Hazardous combustion products:	Halogenated compounds. Hydrofluoric acid. Hydrochloric acid. Carbonyl halides. Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Remove all sources of ignition. 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 pressurized containers. Do not wear contact lenses. Avoid contact with skin and clothing. Use only in area provided with appropriate exhaust ventilation.
Storage:	Store in a cool, dry, well-ventilated area.

Shelf Life Statement: Not available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	None	None	None	200 ppm TWA 400 ppm Ceiling
Norflurane	None	None	1,000 ppm (4,240 mg/m3) TWA	None
trans-dichloroethylene	200 ppm TWA	200 ppm (790 mg/m3) TWA	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves. Viton gloves. Polyvinyl alcohol gloves. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol, liquid
Color:	Colorless
Odor:	characteristic
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	< 1 mm hg (20 °C (68°F))
Boiling point/range:	75 °C (167°F)
Melting point/ range:	Not available
Specific gravity:	1.35 at 20 °C (68°F)
Vapor density:	Not available
Flash point:	Not flammable by flame extension method.
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	Not available
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not available
VOC content:	0 %; 0 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Irritating organic fragments. Carbonyl halides. Hydrogen halides.
Incompatible materials:	Acids and bases. Alkaline earth metals. Oxidizing agents.
Conditions to avoid:	Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	No	No	No
Norflurane	No	No	No
trans-dichloroethylene	No	No	No

Hazardous components	Health Effects/Target Organs
Pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	Central nervous system
Norflurane	Cardiac, Central nervous system, Irritant, Respiratory, Skin
trans-dichloroethylene	Irritant, Central nervous system, Liver, Blood, Eyes, Cardiac

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, ground water, 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 according to Federal, State and local governmental regulations.

Hazardous waste number: Not a RCRA hazardous waste. D003: Reactive.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Aerosols
Hazard class or division: 2.2
Identification number: UN 1950
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

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.2
Identification number: UN 1950
Packing group: None

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 5 (a) (2) SNUR: This product contains an ingredient for which a Significant New Use Rule (SNUR) has been promulgated by the USEPA under the Toxic Substances Control Act (TSCA) section 5(a)(2).

TSCA 12(b) Export Notification: Fluorinated hydrocarbon 1 (CAS# 138495-42-8).

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Pressure

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). trans-dichloroethylene (CAS# 156-60-5).

California Proposition 65:

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

Canada Regulatory Information

CEPA DSL/NDL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

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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