

MATERIAL SAFETY DATA SHEET

State Chemical Division – State Industrial Products
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UZ Engineered Products
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **ELC-NF**
Product Description: Nonflammable electrical contact cleaner.
24 Hour CHEMTREC Number: 800-424-9300
MSDS Number: M01025

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Weight</u>	<u>ACGIH</u>	<u>OSHA</u>
Dichlorofluoroethane	1717-00-6	< 100%	NE	NE
Carbon Dioxide	124-38-9	< 5.0%	5000 ppm	5000 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F(49°C). Eye, skin and respiratory irritant.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: 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.

Eye Contact: May cause eye irritation. Redness and itching or burning sensation may indicate excessive exposure.

Skin Contact: May cause skin irritation. Redness and itching or burning sensation may indicate excessive exposure.

Inhalation: May cause irritation of the respiratory system. May cause nervous system depression.

General: Headache, dizziness, nausea and loss of coordination are indication of excessive exposure to vapors or spray mists.

4. FIRST AID MEASURES

Eye Contact: Promptly flush with a large amount of water for at least 15 minutes. If irritation persists, consult a physician.

Skin Contact: Promptly wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists, consult a physician.

Inhalation: Remove to fresh air. Restore breathing if necessary. If irritation persists, consult a physician

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flashpoint: NA
Lower Explosive Limit(LEL): NA Upper Explosive Limit(UEL): NA Autoignition Temperature: NA
Fire and Explosion Hazards: Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode (due to build-up of pressure) when exposed to extreme heat.

Extinguishing Media: Carbon dioxide, dry chemical, foam.

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

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area and remove with inert absorbent. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Dispose of in accordance with all Federal, State and Local Regulations regarding waste disposal.

7. HANDLING AND STORAGE

Keep away from heat, flames, sparks or other sources of ignition. Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F(49°C). Heat from sunlight, radiators, stoves, hot water and other heat sources could cause container to burst. Do not take internally. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Keep out of reach of children. Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust preferable. General exhaust acceptable if the exposure to materials is maintained below applicable exposure limits.

Personal Protective Equipment:
Respiratory: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted NIOSH-approved organic vapor/particulate respirator.

Eye: Wear approved safety glasses with unperforated sideshields.

Skin: None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemically resistant gloves.

Other: An emergency eyewash station or source of clean potable water should be available in case of accidental eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.	Odor:	Solvent.
Physical State:	Aerosol.	pH:	NA
Product Weight:	10.23 lb/gal.; 1226 g/l.	Specific Gravity:	1.23
Boiling Point:	< 0 - 90°F; < -18 - 32°C	Vapor Density:	Heavier than air.
Evaporation Rate:	Faster than Ether.	Solubility in Water:	NA
Vapor Pressure:	NA	VOC Content:	0.00%

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, sparks, flames or other sources of ignition.
Incompatibility: None expected.
Hazardous Decomposition Products: By Fire: Carbon Dioxide, Carbon Monoxide.

11. TOXICOLOGICAL INFORMATION

IARC / NTP / OSHA: This product contains no ingredients at 0.1% or greater that is listed as a human carcinogen.

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>LD50</u>	<u>LC50</u>
Dichlorofluoroethane	1717-00-6	> 5000 mg/kg (oral rat)	295 g/cu m/4 hr (rat)
Carbon Dioxide	124-38-9	NE	240 mg/l/1 hour (trout)

12. ECOLOGICAL INFORMATION

NA

13. DISPOSAL CONSIDERATIONS

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State and Local Regulations regarding pollution and waste disposal.

14. TRANSPORT INFORMATION

DOT Shipping Data: Consumer Commodity, ORM-D
Canadian TDG: Shipped in accordance with 49 CFR as part of a transborder shipment authorized under Section 5.2 (1) of the Canadian Transportation of Dangerous Goods.
For International and Air Shipments: Aerosols, Nonflammable, 2.2, UN1950.

15. REGULATORY INFORMATION

TSCA: All ingredients in this product are listed or exempt from listing on the TSCA Chemical Inventory.
CEPA: All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDSL.
Proposition 65: This product contains no chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.
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 372.65C):
1,1, Dichloro-1-fluoroethane 1717-00-6 97%

HMIS Classification: Health = 2 Flammability = 0 Reactivity = 0 Personal Protection = A

WHMIS Classification: Class A; Class D, Division 2B.

16. OTHER INFORMATION

NA = Not Available or Not Applicable.
NE = Not Established.

Read and follow all label directions and precautions before using the product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE KEEP OUT OF THE REACH OF CHILDREN. While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.

HEALTH AND SAFETY INFORMATION: (216) 861-7114

Completed On: November 2006 Replaces: January 2005 Completed By: Regulatory Affairs Specialist.