

HMIS RATING	
Health	1
Flammability	0
Reactivity	0

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	2
Flammability	2
Reactivity	0
NFPA 30B LEVEL	
1	

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 Corporate & Emergency Telephone (614-228-6701)

1. PRODUCT IDENTIFICATION

PART NUMBER80-725
 PRODUCT NAMECirc-Kleen Free Electric Contact & Switch Cleaner
 CHEMICAL FAMILYN/A
 DOT SHIPPING.....Consumer Commodity ORM-D

2. HAZARDOUS INGREDIENTS

Specific chemical identity, common names	OSHA PEL	ACGIH TLV	STEL	%
1,1-Dichloro-1-fluoroethane (1717-00-6)	NA	NA	.	.
Isopropyl Alcohol (67-63-0)	400ppm	400ppm	.	.
Proprietary Items	.	.	.	3

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

3. PHYSICAL DATA

BOILING POINT (RANGE)..... 89.6° F to 180° F
 VAPOR PRESSURE PSIG @ 70° F 80-90
 VAPOR DENSITY (Air = 1) Heavier than air
 SOLUBILITY IN WATER Negligible
 SPECIFIC GRAVITY (H₂O = 1) 1.11
 MELTING/FREEZING POINT N/A
 EVAPORATION RATE (Water = 1) Faster than water
 APPEARANCE AND ODOR Clear, colorless / Characteristic odor

4. FIRE AND EXPLOSION DATA

FLASH POINT Non-Flammable (as determined by the aerosol flame projection test)
 UPPER EXPLOSIVE LIMIT (%) NA
 LOWER EXPLOSIVE LIMIT (%) NA
 EXTINGUISHING MEDIA Water Fog, Dry Chemical, CO₂
 SPECIAL FIREFIGHTING PROCEDURES Firefighters should wear NIOSH approved positive pressure self-contained breathing apparatus.
 FIRE AND EXPLOSION HAZARDS..... Heated cans may burst.
 NFPA FLAMMABILITY HAZARD 2

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY.....Skin, Ingestion, Inhalation
 HEALTH HAZARDS (Acute & Chronic) May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of skin. Effects are reversible. Long term exposure (years) to high concentrations of vapor may cause lung, liver or kidney damage. Aspiration hazard if swallowed. Eye and skin irritant. May irritate respiratory tract. The solvents listed have been reported to affect the central nervous system:
 1,1-Dichloro-1-fluoroethane

SIGNS AND SYMPTOMS OF EXPOSURE.....Inhalation: Difficulty in breathing. Skin: Redness
 Ingestion: Vomiting.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Heart disease; respiratory disorders
 May cause central nervous system disorders.

5. HEALTH EFFECTS DATA (Continued)

FIRST AID PROCEDURES

EYES.....Flush with water for at least 15 minutes.
 SKIN CONTACTWash with soap and water.
 INHALATION.....Remove to fresh air. Give oxygen. If symptoms persist, obtain medical attention.
 INGESTION.....Do not induce vomiting - gastric lavage. Keep individual calm. Call a physician immediately.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) Presently not on any list.

6. REACTIVITY

STABILITYStable
 INCOMPATIBILITIESHigh temperatures sparks, open flame, strong alkalies and oxidizers, alkaline earth metals, finely powdered metals such as aluminum, magnesium.

NFPA REACTIVITY HAZARD.....0
 HAZARDOUS DECOMPOSITION PRODUCTS.....CO₂ Carbon Monoxide
 hydrogen fluoride, hydrogen chloride, chlorine

HAZARDOUS POLYMERIZATION.....Will not occur.
 HAZARDOUS POLYMERIZATION CONDITIONSNone known.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

PROTECTIVE EQUIPMENT

REQUIREMENTS Safety glasses or goggles. Protective gloves (none required if spraying). Ventilation sufficient to maintain vapor concentrations below TLV.
 WASH REQUIREMENTS Wash with soap and water.
 SPILL OR LEAK PROCEDURES Use absorbent sweeping compound to soak up material. Put into container. Dispose of as hazardous waste.
 WASTE DISPOSAL METHODS Dispose as hazardous waste in accordance with EPA RCRA.
 HANDLING & STORAGE..... Keep away from heat, sparks, or open flame. Store at temperatures below 120° F.
 OTHER PRECAUTIONS..... When spraying more than one half can continuously, or more than one can consecutively, use NIOSH approved respirator. Avoid prolonged breathing of vapors. Use with adequate ventilation

8. ADDITIONAL INFORMATION

Use self contained breathing apparatus if TLV limits are exceeded. Do not smoke while using. Wash hands after use.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCT(S). SUCH ARE BASED ON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND ARE BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATION CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

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