

# Material Safety Data Sheet

## Select Free Aerosol CFC-Free Aerosol Contact Cleaner

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**FOR CHEMICAL EMERGENCY**  
Call INFOTRAC  
800/535-5053 (24 HOURS)

### Section I: Product Identification

Product name: SELECT FREE AEROSOL  
Synonym: CFC-Free Contact Cleaner  
Molecular Formula: 1,1-Dichloro-1-fluoroethane

### The “Plain English” Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK includes this “PLAIN ENGLISH” section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240.

**Health Hazards:** SELECT FREE (A) is an industrial chemical. We call it “environmentally preferred” because it is intended to replace products that are more hazardous, (1, 1, 1 trichloroethane, mineral spirits, MEK, etc.). This does not mean that it is completely harmless. It is strong enough to remove tough industrial soils, so it can irritate your skin. We suggest you wear gloves, and avoid extended exposure to unprotected skin. Don't get it in your eyes, or breath large amounts of the vapor, (it will dry out your nasal passages). Used on a rag or from a spray bottle, the product won't produce fumes in any great quantity, (don't spray this material under high pressure without adequate ventilation). For more exposure and first aid information, please read through this MSDS.

**Flashpoint:** SELECT FREE (A) does not have a flashpoint. Under virtually all industrial circumstances and conditions, this material will not burn, (under exactly the right conditions, it can be made to ignite). Combustion in ordinary use isn't a big concern but if you want to discuss a specific application, please call us. We do not recommend using this, or any other industrial solvent, around welding or hot work areas.

**Disposal:** SELECT FREE (A) is a halogenated solvent. Liquid waste that is captured after the cleaning process must be disposed of according to certain specific guidelines. Additionally, once this material is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, depending on whether or not the material you are cleaning is hazardous. If you aren't sure how to dispose of this material, give us a call and we will help you make the right decisions.

### Section II: Chemical or Hazardous Components

Chemical Name	1,1-Dichloro-1-fluoroethane *
CAS No.	1717-00-6
Approx. wt. %	96%
Exposure	ACGIH-TLV – 500 ppm OSHA-PEL – 500 ppm

(\* Reportable under SARA Title 3 Section 313)

Chemical Name	Carbon Dioxide
CAS No.	124-38-9
Approx. wt. %	<5%
Exposure	ACGIH-TLV - 5000 ppm OSHA-PEL - 10000 ppm

#### ALL MATERIALS IN PRODUCT ARE TSCA LISTED

RCRA REGULATED:	No
CERCLA (superfund):	Not Applicable
DOT regulated:	YES
DOT haz. class:	ORM-D
DOT Shipping Name:	Consumer Commodity
DOT number:	None Listed

### Section III: Physical Data

Appearance & Odor:	Clear colorless liquid with faint ether-like odor
Boiling Point:	95° F.
Evaporation Rate (Ether = 1):	>1
Percent Volatile:	100%
Solubility In Water:	Insoluble
Specific Gravity (H2O=1):	1.24
VOC Content	0 grams/liter
Vapor Density (AIR=1):	4.0
Vapor Pressure (mm Hg.):	586 @ 20 °C

## Section IV: Fire and Explosion Hazard Data

### Flash Point (Method):

Aerosol (USA Flame Extension) Non-Flammable (A "non-flammable" designation indicates that the contents will **not** ignite if sprayed on or near an ignition source unless flammable limits are reached.)

### Flammable Limits:

LEL 7.6%  
UEL 17.7%

### Extinguishing Media:

Foam, Alcohol Foam, water fog, carbon dioxide, dry chemical.

### Special Fire Fighting Procedures:

Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

### Unusual Fire & Explosion Hazards:

Hydrogen chloride gas can be liberated in a fire. Contact with soft metals can liberate flammable hydrogen gas. Aerosol container may burst if heated over 120 °F.

## Section V: Reactivity Data

Stability: Stable

### Conditions to Avoid:

Contamination with other chemical, especially organics and oxidizable materials. Avoid alkaline materials, strong acids and oxidizing materials.

### Hazardous Decomposition:

Carbon monoxide, carbon dioxide and chlorine containing gases.

### Hazardous Polymerization:

Will Not Occur.

## Section VI: Health Hazard Data

### Primary Routes of Exposure:

Oral, Inhalation, & Skin

### Ingestion:

Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

### Inhalation:

Vapors cause irritation of respiratory tract. Air concentrations exceeding recommended exposure limits may cause acute nervous system depression, characterized by headache, dizziness, nausea, confusion, irregular heartbeat and elevated Carbon Monoxide levels in the blood. Higher air concentrations may cause unconsciousness and death.

### Eyes:

Severe irritation, tearing, redness and blurred vision.

### Skin or Contact:

Frequent or prolonged contact may cause skin irritation experienced as burning, drying, cracking and redness.

### First Aid:

#### Ingestion:

If ingested, do not induce vomiting, keep person warm, quiet, and get medical attention. Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.

#### Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Keep person warm and quiet. Seek medical attention.

#### Eyes:

Irrigate immediately with water for at least 15 minutes lifting eyelids periodically to remove contamination. Get immediate medical attention.

#### Skin:

Wash with soap and water. Thoroughly clean contaminated clothes and shoes before re-use. If symptoms persist, seek medical attention.

#### Carcinogen:

NTP – Not Listed  
IARC Monographs – None

## Section VII: Precautions for Safe Handling

### HMIS Information:

Health – 2 / Reactivity – 0  
Flammability – 1 Personal Protection – B

### HMIS Definition:

0 – Minimal, 1 – Slight, 2 – Moderate, 3 – Serious, 4 – Extreme

"/" in the Health Category denotes material does not target any major organs.

"\*" in the Health Category denotes material may target certain organs.

### Eye Protection:

Use chemical resistant goggles, and face shields.

### Protective Gloves:

Solvent Impermeable such as butyl rubber gloves.

### Respiratory Protection:

Use a NIOSH approved respirator with organic vapor canister if vapor or mist becomes a problem or airborne exposure limits are exceeded.

### Ventilation: General mechanical ventilation or local exhaust should

be suitable to keep vapor concentrations below required levels (See Section II).

### Other Protective Clothing: Use impermeable apron.

Work Practices: Wash thoroughly after handling. Avoid breathing spray mist. Avoid contact with eyes and skin.

## Section VIII: Control Measures

Spill: Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal or remove with inert absorbent. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams and groundwater with spilled material or used absorbent.

Waste Disposal Method: Wrap empty container and place in trash collection. Do not reuse container.

Precautions To Be Taken In Handling & Storing: Avoid prolonged or repeated skin contact. Use with adequate ventilation. Do not store above 120 °F. Store large quantities in compliance with OSHA 29 CFR 1910.106. Do not puncture or incinerate container. Store and use only in a cool, well ventilated area away from all sources of ignition such as sparks, open flames and heated surfaces.

Other Precautions: Avoid skin and eye contact. Do not breathe spray mist. Keep this and all chemicals out of the reach of children.

## Section IX: Part Number and Packaging

<u>Prod. Name</u>	<u>Code</u>	<u>Packaging</u>	<u>Natl. Stock No.</u>
SELECT FREE (A)	0627-1	12x14oz	6850-01-386-8415

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END OF MSDS