

Material Safety Data Sheet



ECOLINK 2005 Aerosol CFC-Free Contact Cleaner

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

Section I: Product Identification

Product name: ECOLINK 2005 (A)
Synonym: CFC-Free Contact Cleaner
Molecular Formula: CH₃CCl₂F

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: ECOLINK 2005 (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: ECOLINK 2005 (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: Ecolink 2005 (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
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
Exposure	ACGIH-TLV - 5000 ppm OSHA-PEL - 5000 ppm

Chemical Name	2-Propanol
CAS No.	67-63-0
Exposure	ACGIH-TLV - 400 ppm OSHA-PEL - 500 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:	N/A

Section III: Physical Data

Appearance & Odor:	Colorless liquid with faint ether-like odor.
Boiling Point:	89.6° F. @ 760 mmHg
Evaporation Rate:	>1 (Ether = 1)
Percent Volatile:	100%
Solubility In Water:	Slight
Specific Gravity (H ₂ O=1):	1.22
VOC Content	49 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:

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

Special Fire Fighting Procedures:

Keep fire exposed containers cool with water. Fire fighters should wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode with appropriate gear and chemical resistant personal protective equipment.

Unusual Fire & Explosion Hazards:

Aerosol containers may explode when heated above 130°F.

Section V: Reactivity Data

Stability: Stable

Conditions to Avoid:

Sources of ignition such as sparks, hot spots, welding, flames and cigarettes. Ignition flash may result if concentration of product is in the flammable range. (See section IV for LEL and UEL values.)

Hazardous Decomposition:

May decompose to hydrogen chloride and/or hydrogen fluoride at temperatures above 100°F.

Hazardous Polymerization:

Will Not Occur.

Section VI: Health Hazard Data

Primary Routes of Exposure:

Oral, Inhalation, & Skin

Ingestion:

Swallowing large amounts may be harmful by causing gastrointestinal irritation.

Inhalation:

Breathing large amounts may be harmful by causing nose, throat respiratory tract irritation.

Eyes:

Irritant. Liquid contact will irritate eyes and may cause stinging, tearing, and redness.

Skin or Contact:

May cause mild irritation of redness and burning.

First Aid:

Ingestion:

Seek medical attention immediately. If individual is drowsy or unconscious, do not give anything by mouth; place individual on left side with head down. Contact medical facility or poison Control center for advice on whether to induce vomiting.

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. Get medical attention if irritation persists.

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
OSHA REGS – Not Regulated

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:

Safety glasses or goggles.

Protective Gloves:

Butyl Rubber Gloves.

Respiratory Protection:

Not required under conditions of normal use. For prolonged/continuous use where vapors are present, use NIOSH certified organic vapor mask.

Ventilation: Local exhaust/hood or fan may be used.

Other Protective Clothing: Not required under normal use.

Work Practices: Treat this chemical with respect and follow all MSDS instructions.

Section VIII: Control Measures

Small Spill: Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large Spill: Eliminate all ignition sources, (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams, etc. If runoff occurs, notify authorities as required. Pump or vacuum transfer the spilled product to clean containers for recovery. Transfer contaminated, absorbent soil and other materials to containers for disposal.

Waste Disposal Method: ECOLINK 2005 (A) is not considered a RCRA regulated substance. Soils removed during cleaning may affect the hazard classification of your waste stream. If your waste stream remains non-hazardous (you need to check), the waste may be disposed of just like used oil (in most states). Please call us if you need additional disposal information.

Precautions To Be Taken In Handling & Storing: Since empty containers contain product residue and may be under pressure, all hazard precautions given in the material safety data sheet must be observed. 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: 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>
Ecolink 2005 (A)	0618-1	12 x 14 oz net	6850-01-479-8303

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END OF MSDS