

August 2001

MATERIAL SAFETY DATA SHEET

0332KA  
Revised: 20

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Outside the United States call 813-248-0585

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Endust for Electronics Duster SKU# 257-000

CHEMICAL FORMULA/FAMILY: Aerosol dust remover

SECTION II: INGREDIENTS

INGREDIENT SUMMARY	CAS NUMBER	COMPOSITION	OSHA LIMITS
1,1,-difluoroethane	75-37-6	95-100%	N.E.

N.E.= Not Established

SECTION III - PHYSICAL DATA

BOILING POINT: -25 degrees C (-13 F)      SPECIFIC GRAVITY: 0.9 at 25 degrees C  
VAPOR PRESSURE: 87 psia at 25 deg.C      VAPOR DENSITY (AIR=1): 2.4  
%VOLATILE: 100%      EVAPORATION RATE: N.A.

WATER SOLUBILITY: 0.28% w/w @ 25 deg.C      ODOR: Slight ethereal

APPEARANCE: Colorless gas at normal temperature and pressure.

#### SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point: <-50øC (-58øF)

Flammable Limits in Air (% by volume):

LEL: 3.9%

UEL: 16.9

Extinguishing Media:

Water spray, water fog, dry chemical, carbon dioxide, or alcohol foam.

Hazardous Decomposition Products:

This material can be decomposed by high temperatures (open flames and glowing metal surfaces) forming hydrofluoric acid and possibly carbonyl fluoride.

Special Fire Fighting Procedures:

These procedures are for fires that occur when large quantities of product are involved. When single containers or small amounts of product are involved, the fire fighting procedures will depend on the total situation and other materials involved in the fire.

Keep containers cool with water spray. If gas exiting containers ignites, self-contained breathing apparatus is required.

Unusual Fire and Explosion Hazards:

Water may be ineffective to extinguish fire. Aerosol cans may explode from internal pressure build-up when exposed to extreme heat. Water may be used to cool containers and prevent explosion.

#### SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death. Overexposure by inhalation may include nonspecific discomfort, such as nausea, headache, or weakness; or temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Higher exposures (>20%) may cause temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath; high exposure may also cause temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation, or abnormal kidney function as detected by laboratory tests. Gross exposure may be fatal. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air.

Individuals with preexisting diseases of the central nervous or cardiovascular system may have increased susceptibility to the toxicity of excessive exposure.

Note to physicians: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

SKIN CONTACT: Liquid contact can cause frostbite.

INGESTION: Ingestion is not considered a potential route of exposure.

EMERGENCY FIRST AID PROCEDURES:

Inhalation:

If high concentrations are inhaled, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Eye or Skin Contact:

EYE: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Treat for frostbite, if necessary, by gently warming affected area.

Ingestion: Ingestion is not considered a potential route of exposure.

SECTION VI - REACTIVITY DATA

Hazardous Polymerization: Will not occur.

Stability: This product is stable under normal household use conditions.

Incompatibility: Incompatible with alkali or alkaline earth metals: powdered aluminum, zinc, beryllium, and similar powdered metals.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be Taken in Case Material is Released or Spilled:

Note: Review fire fighting measures and handling procedures before proceeding with cleanup. Use appropriate personal protective equipment during cleanup.

If a spill can cause a concentration in excess of 1,000 ppm, remove ignition sources and prevent further leakage. Evacuate area. Ventilate area, especially low places where heavy vapors might collect. Wear self-contained

breathing apparatus.

Endust for Electronics Duster  
257000

Page Number:4

If this product is spilled and not recovered, or is recovered as a waste for treatment or disposal, the CERCLA reportable quantity is 100 lbs. (The waste is ignitable.)

Waste Disposal Method:

Incinerate or remove to a permitted waste facility. Comply with federal, state, and local regulations.

The material may be a RCRA hazardous waste upon disposal due to the ignitability characteristic.

RCRA Hazardous Waste ID Number: D001

SECTION VIII - PROTECTIVE EQUIPMENT TO USE

Respiratory Protection:

None required during normal household use.

If workplace exposure limits are exceeded, a suitable NIOSH or OSHA respirator is recommended; self-contained breathing apparatus is required if large releases occur during industrial use or storage.

Ventilation:

Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical exhaust should be used in low or enclosed places.

Protective Gloves:

No protection required for normal household use when spray is not directed at skin surfaces.

Impervious gloves should be worn when handling the liquid or if direct spray is expected to contact the skin.

Eye Protection:

Wear safety glasses or goggles when possibility of direct eye contact exists.

Other Protective Equipment: None.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage:

This product is classified as a Level 1 aerosol in accordance with the National Fire Protection Association Manufacturing and Storage of Aerosol

Products Code.

Endust for Electronics Duster  
257000

Page Number: 5

Wash hands thoroughly after use.

Store in a cool dry area with ventilation suitable for storing materials shown in Section II. Keep away from heat, sparks and flame. Keep away from direct sunlight or any source of ignition. Do not store at temperatures above 120° F.

Other Precautions:

These are the standard hazard statements for non-flammable aerosol consumer products:

CAUTION! Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C (120° F). Keep out of reach of children.

Because of the expected use pattern and previous formulations, these statements are also important:

Intentional misuse by deliberately concentrating and inhaling contents may be fatal. Use in a well-ventilated area. This product is not defined as flammable by regulations of the Consumer Product Safety Commission, but the product can be ignited under certain circumstances. Do not use near open flame, sparking material, or any incandescent material.

NFPA Aerosol Storage Level Code: 1

SECTION X - STATE RIGHT TO KNOW INFORMATION

PENNSYLVANIA: This product contains the following Pennsylvania Right-to Know hazardous substances at concentrations of 1% or greater and special hazardous substances at concentrations of 0.01% or greater: None

Identity of non-hazardous substances not listed above or in Section II is considered to be a trade secret.

SECTION XI - SARA TITLE III INFORMATION

SECTION 302: This product contains the following ingredient(s) regulated under SARA Title III Section 302 Extremely Hazardous Substances List: None

SECTION 313: This product contains the following ingredient(s) regulated under SARA Title III Section 313: None

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