

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS #: 0332KA

Issue Date: 6/12/2003

PRODUCT NAME:

Endust for Electronics Duster

GENERAL USE:

Aerosol dust remover

APPEARANCE:

Colorless gas at normal temperature and pressure.

Distributor in USA

Distributor in Canada

Sara Lee Household & Body Care USA

Sara Lee Household & Body Care -Canada

707 Eagleview Blvd.

Cambridge, Ontario N1T1B2 Canada

Exton, PA 19341-1124 USA

EMERGENCY TELEPHONE NUMBER

EMERGENCY TELEPHONE NUMBER:

(519) 622-9800

CHEM-TEL, INC. 1- (800) 255-3924, Outside U.S.A. (813) 248-0585

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	% (By weight)	OSHA PEL	ACGIH TWA	SARA 302	SARA 313
Ethane, 1,1-difluoro-	75376	95 TO 100	TWA STEL	None None	None	No No

In Canada, Not a WHMIS Controlled Product (Consumer Commodity)

## SECTION 3 - HAZARDS IDENTIFICATION

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, loss of co-ordination, 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 irregular pulse, palpitations. 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.

## SECTION 4 - FIRST AID MEASURES

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.

SKIN / EYE 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. Contact a physician.

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

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT <-50°C (-58°F)

FLAMMABLE LIMITS LEL: 3.9 UEL 16.9

AUTOIGNITION TEMP. 454°C

NFPA AEROSOL LEVEL: 1

EXTINGUISHING MEDIA

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

FIRE FIGHTING PROCEDURE :

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

UNUSUAL FIRE & EXPLOSION HAZARDS

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

HAZ COMBUSTION PRODUCTS

This material can be decomposed by high temperatures forming hydrofluoric acid and possibly carbonyl fluoride.

## SECTION 6: ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED -

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

## SECTION 7: HANDLING AND STORAGE

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

CAUTION! Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 F.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS** Normal ventilation is generally adequate. Local exhaust should be used when large amounts are released. Mechanical exhaust should be used in low or enclosed places.

#### PERSONAL PROTECTION:

##### RESPIRATORY PROTECTION (SPECIFY TYPE):

None required during normal use. Self-contained breathing apparatus is required if large releases occur during industrial use or storage.

**PROTECTIVE GLOVES** No protection required for normal use. Do not direct spray at skin surfaces.

**EYE PROTECTION:** Wear safety glasses or goggles when possibility of direct eye contact exists.

**OTHER PROTECTION:** CAUTION! Do not puncture or incinerate container. Do not expose to heat or flame.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits. Minimize body contact with this as well as all chemicals in general.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>VAPOR PRESSURE (MM Hg)</b>	87	<b>VAPOR DENSITY (AIR =1 )</b>	2.4
<b>SPECIFIC GRAVITY (WATER =1)</b>	N.D.	<b>EVAPORATION RATE (WATER =1)</b>	N.D.
<b>SOLUBILITY IN WATER</b>	0.28 %	<b>FREEZING POINT</b>	N.D.
<b>pH</b>	N.A.	<b>ODOR</b>	Slight ethereal
<b>BOILING POINT</b>	-25°C (-13 F)	<b>VOLATILE ORGANIC COMPOUND (Total VOC's)</b>	0%

#### SECTION 10 - STABILITY AND REACTIVITY

**STABILITY:** This product is stable under normal use conditions.

**CONDITIONS TO AVOID:** 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. 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 source.

#### INCOMPATIBILITY (MATERIALS TO AVOID)

Incompatible with alkali or alkaline earth metals.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

This material can be decomposed by high temperatures forming hydrofluoric acid and possibly carbonyl fluoride.

**HAZARDOUS POLYMERIZATION** Will not occur.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>%</b>	<b>CAS #</b>	<b>LD50 of Ingredients (Specify Species and Route)</b>	<b>LC50 of Ingredients (Specify Species and Route)</b>
Ethane, 1,1-difluoro-	95 TO 100	75376	N. Av.	N. Av.

#### SECTION 12 - ECOLOGICAL INFORMATION

None.

#### SECTION 13 - DISPOSAL INFORMATION

Incinerate or remove to a permitted waste facility. Comply with federal, state, and local regulations. The material may be a hazardous waste upon disposal due to the ignitability characteristic.

#### SECTION 14 - TRANSPORTATION INFORMATION

difluoroethane UN 1030 Hazard Division 2.1 US DOT exemption E-11516 for ground shipment in USA. In Canada, Consumer Commodity-Aerosol.

#### SECTION 15 - REGULATORY INFORMATION

##### TSCA (Toxic Substance Control Act):

Components of this product are listed on the TSCA Inventory.

##### SARA TITLE III (Superfund Amendments and Reauthorization Act), Canadian Regulations and California Prop 65:

<b>Chemical Name</b>	<b>CAS #</b>	<b>SARA 313</b>	<b>SARA 302</b>	<b>CANADA IDL</b>	<b>DSL</b>	<b>NDSL</b>
Ethane, 1,1-difluoro-	75376	No	No	No	Yes	No

Chemical Name	CAS #	Prop65 Cancer	Prop65 Developmental	Prop65 Female Reproductive	Prop65 Male Reproductive
Ethane, 1,1-difluoro-	75376	No	No	No	No

**SECTION 16 -OTHER INFORMATION**

US SKU 237-000, 255-000, 257-000

Canada SKU

HMIS HAZARD

HEALTH: 1

0 =  
INSIGNIFICANT 3 = HIGH

FLAMMABILITY 4

1 = SLIGHT 4 = EXTREME

REACTIVITY: 1

2 = MODERATE

PERSONAL PROTECTION

None

EQUIPMENT:

MSDS Prepared By: SCH

SARA LEE Household and Body Care - USA

Issue Date: 6/12/2003

707 Eagleview Blvd

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