

MATERIAL SAFETY DATA SHEET



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MSDS #: 0410SA Issue Date: 11/30/2004
PRODUCT NAME: Endust for Electronics Duster
GENERAL USE: Aerosol dust remover
PRODUCT DESCRIPTION: colorless gas

Distributor in USA: Sara Lee Household & Body Care USA
707 Eagleview Blvd.
Exton, PA 19341-1124 USA
EMERGENCY TELEPHONE NUMBER (800) 255-3924
Outside of U.S.A. (813) 248-0585

Distributor in Canada: Sara Lee Household & Body Care - Canada
Mississauga, Ontario L5R 3G5 Canada
EMERGENCY TELEPHONE NUMBER: 905-712-4440

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	% (by weight)	OSHA PEL	ACGIH TWA	SARA 302	SARA 313
Ethane, 1,1,1,2-tetrafluoro-	811972	99	TO TO 100	TWA None STEL None	None	No

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

SECTION 3 - HAZARDS IDENTIFICATION

Intentional misuse by concentration and inhalation of vapors may be harmful or fatal. Gas displaces air and may cause suffocation. Symptoms include nausea, dizziness, headache, confusion, breathing difficulties, heart "thumping", palpitations and irregular heart beat. Contact with liquefied gas may cause frostbite in affected areas of skin or eyes.

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove to fresh air. Keep person calm. If not breathing, activate emergency response. Oxygen may be given by trained personnel if breathing is difficult

SKIN / EYE CONTACT: Flush affected areas of eyes or skin with plenty of water for 15 minutes. Seek medical assistance.

INGESTION: Not a usual route of exposure

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS: LEL: N.D. UEL: N.D.

AUTOIGNITION TEMP.: >743 C

NFPA AEROSOL LEVEL: 1

EXTINGUISHING MEDIA: Water spray or fog, dry chemical, CO2 or foam as appropriate to source of fire. Keep cans cool to prevent bursting.

FIRE FIGHTING PROCEDURE: Wear self contained breathing apparatus and protective clothing

UNUSUAL FIRE & EXPLOSION HAZARDS: This product is not flammable in air at atmospheric temperatures. In a high pressure or oxygen enriched atmosphere, product may become combustible.

HAZ COMBUSTION PRODUCTS: At high temperatures, product may decompose to form hydrofluoric acid and carbonyl fluoride

SECTION 6: ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED -
Ventilate area, especially low or enclosed area where vapors may collect. Use appropriate personal protective equipment when working in area.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - Keep away from extreme heat or flame.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Normal ventilation adequate in normal use

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): None required during normal use

PROTECTIVE GLOVES: Avoid contact with liquefied gas, as frostbite can occur

EYE PROTECTION: Avoid contact with liquefied gas, as frostbite can occur

OTHER PROTECTION: None

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

VAPOR PRESSURE (MM Hg)	96 psia @25 C	VAPOR DENSITY (AIR =1)	3.6 @ 25 C
SPECIFIC GRAVITY (WATER = 1)	1.208 @ 25 C	EVAPORATION RATE (WATER =1)	N.D.
SOLUBILITY IN WATER	0.15 wt% @ 25 C	FREEZING POINT	N.D.
pH	None	ODOR	slight ether
BOILING POINT	-26.5 C@ 736 mm Hg	VOLATILE ORGANIC COMPOUND (Total VOC's)	100%

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable at room temperature

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID)

Alkali or alkaline earth metals- powdered AL, Zn, Be, etc. Avoid contact with chlorine or other strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

At high temperatures, product may decompose to form hydrofluoric acid and possibly carbonyl fluoride

HAZARDOUS POLYMERIZATION Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Ingredients	%	CAS #	LD50 of Ingredients (Specify Species and Route)	LC50 of Ingredients (Specify Species and Route)
Ethane, 1,1,1,2-tetrafluoro	99 TO 100	811972	Not Available rat	467,000 ppm (4 hr ALC,

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY: 48 hr. EC50: Daphnia magna 980 mg/L, Rainbow trout 450 mg/L

SECTION 13 - DISPOSAL INFORMATION

Dispose in accordance to local state and federal regulations

SECTION 14 - TRANSPORTATION INFORMATION

1,1,1,2-tetrafluoroethane, UN 3159 Hazard Class 2.2, reclassified Consumer Commodity ORM-D in ground transportation accordance with USDOT Exemption # 10232

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)

Chemical Name	CAS #	SARA 313	SARA 302	CANADA IDL	DSL	NDSL
Ethane, 1,1,1,2-tetrafluoro-	811972	No	No	No	Yes	No
Chemical Name	CAS #	Prop65 Cancer	Prop65 Developmental	Prop65 Female Reproductive	Prop65 Male Reproductive	
Ethane, 1,1,1,2-tetrafluoro-	811972	No	No	No	No	

SECTION 16 - OTHER INFORMATION

US SKU: 237-050, 255-050, 257-050

Canada SKU

HMIS HAZARD RATINGS :	HEALTH: 1	0 = INSIGNIFICANT	3 = HIGH
	FLAMMABILITY: 0	1 = SLIGHT	4 = EXTREME
	REACTIVITY: 0	2 = MODERATE	

PERSONAL PROTECTION EQUIPMENT:0

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