

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION

NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special- Manufactured For: EARTHENAIR Address: 3535 Northcliffe Road Address: Cleveland Heights, OH 44118	HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-B DOT Hazard Classification: ORM-D Identity (trade name as used on label): D & S Vending, Inc. Contact & Circuit Board Cleaner
Phone: 216-371-8626 EMERGENCY RESPONSE NUMBER: 800-255-3924	MSDS Number: 362 Revision- 5 Date Prepared: 04/19/96 Prepared By: ES Information Calls: (770)422-2071

NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
1,1 DICHLORO-1-FLUOROETHANE	1717-00-6	Yes	N/E	N/E	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 90°F	Specific Gravity (H ₂ O=1): Concentrate Only = 1.25
Vapor Pressure: PSIG @ 70°F (Aerosols): 100 psig	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A
Vapor Density (Air = 1): 4	Evaporation Rate (- 1): N/A
Solubility In Water: Nil	Water Reactive: No
Appearance and Odor: Clear, colorless, liquid gas with ethereal odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NON FLAMMABLE	Auto Ignition Temperature 1022°F	Flammability Limits In Air by % in Volume: % LEL: 7.4 % UEL: 15.5
FLASH POINT AND METHOD USED (non-aerosols): N/A		EXTINGUISHER MEDIA: Water spray or fog.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.		
Unusual Fire & Explosion Hazards: May decompose during contact with flames, heating elements. Toxic and corrosive fumes could result.		

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Incompatibility (Mat. to avoid): Strong alkalis, strong oxidizers.	Conditions to Avoid: Thermal decomposition due to exposure to heat or fire.
Hazardous Decomposition Products: Hydrogen fluoride, hydrogen chloride, CO, CO ₂ and chlorine.	

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION INGESTION SKIN ABSORPTION EYE NOT HAZARDOUS

ACUTE EFFECTS

Inhalation: High concentrations may sensitize the heart to adrenaline.

Eye Contact: Irritant

Skin Contact: Defatting

Ingestion: If vomiting occurs, can be aspirated into lungs and cause chemical pneumonitis.

CHRONIC EFFECTS: None Known.

Medical Conditions Generally Aggravated by Exposure: Breathing disorders.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Get medical attention.

Skin Contact: Wash with soap and water.

Inhalation: Move to fresh air.

Ingestion: **DO NOT INDUCE VOMITING.** Drink several glasses of water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): In inadequately ventilated area use air supplied respirator.

Protective Gloves: Rubber

Eye Protection: Safety glasses.

Ventilation Requirements: Normal ventilation is usually adequate.

Other Protective Clothing & Equipment: None

Hygienic Work Practices: Do not smoke around fumes.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Extinguish ignition or combustion sources. Keep up wind of spill. Stop leak.

Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 120°F. Keep away from heat or electrical arc.

Other Precautions &/or Special Hazards: **KEEP OUT OF REACH OF CHILDREN.** Avoid food contamination. Avoid breathing vapors. Avoid polystyrene.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only