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## MATERIAL SAFETY DATA SHEET

Rev. 01/02/97

The materials listed in this Data Sheet are classified in accordance with the definitions set forth in 29CFR Part 1910.1

CONTROL  
3117  
3118

I PRODUCT NAME: SUPER FRIENDLY AIRIT  
SUPER FRIENDLY FREEZEIT

CHEMICAL FAMILY: HFC

HMIS DESIGNATION: HEALTH...1, FLAMMABILITY...0, REACTIVITY...1

## II COMPONENTS 1% OR GREATER

Contains carcinogenic compounds 0.1% or greater  Yes  No

CHEMICAL	CAS. NO.	%	NTP/IARC/OSHA Carcinogen List	Exposure Limits		
				TLV	DUPONT	PEL
1,1,1,2 - Tetrafluoroethane	811-97-2	100	NO	N/A	1000 ppm	N/A

## III PERTINENT PHYSICAL DATA:

Boiling Point: -15.7° F @ 736mm  
Vapor Density: 3.18 @ 77° F (Air = 1)  
Appearance/Form: Clear liquefied gas

Vapor Pressure: 96 mm Hg at 77° F.  
Specific Gravity: 1.21 (Water = 1)  
Color/Odor: Colorless, Slight ethereal odor

Evaporating Rate: <1 (Butyl Acetate = 1)  
Solubility in water: 0.15% by volume @ 77° F

## IV FIRE AND EXPLOSION DATA:

Flammability Classification: Non-Flammable  
Fire and Explosion Hazards: Pressurized aerosol containers may vent, rupture or explode and add to flying and falling debris.

## V HEALTH HAZARD DATA:

Principal Health Hazards - Routes of Entry: Inhalation: Vapor is heavier than air and can cause suffocation by reducing oxygen available for breathing. Eyes: Contact with liquid may cause severe tissue damage due to frostbite. Ingestion: No known toxic effects. Skin: Contact with liquid may cause frostbite.  
Effects of overexposure: Inhalation: Breathing high concentrations of vapor can cause light-headedness, giddiness, shortness of breath and may lead to narcosis, cardiac irregularities, unconsciousness or death. Eyes: Liquid contact may cause frostbite. Ingestion: Although oral toxicity is low, ingestion is to be avoided. Skin: Liquid contact may cause frostbite. Irritation and reddening may occur due to defatting.  
Toxicity Data: 1,1,1,2 - Tetrafluoroethane, Tats ALC 567,000 ppm/4 hrs.  
Emergency and First Aid Procedures: Inhalation: Remove to fresh air and call a physician. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs. Eyes: Immediately flush with water for at least 15 minutes; Seek medical attention. Ingestion: No specific intervention is indicated as the compound is not likely to be ingested. However, consult with a physician as necessary. Do not induce vomiting as the hazard of aspirating the material into the lungs is a greater hazard than allowing it to pass through the intestinal tract. Skin: Treat for frostbite. If irritation occurs or persists, seek medical attention.  
Note to physicians: Because of the possible risk of eliciting cardiac dysrhythmias, catecholamine drugs, such as epinephrine, should be used only as a last resort in life threatening emergencies.

## VI REACTIVITY:

Stability:  Unstable.  Stable Hazardous Polymerization:  may occur,  will not occur.  
Hazardous Decomposition Products: This product can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and possible carbonyl fluoride.  
Incompatibility (Materials to avoid): Alkali and alkaline earth metals, powdered Al, Zn, Bo, or Mg.

## VII SPILL AND LEAK PROCEDURES:

Ventilate area. Remove open flames and other sources of ignition. Collect spilled product with absorbent material and place in closed steel drums for proper disposal.  
Waste Disposal: Comply with all federal, state and local regulations. Do not puncture or incinerate aerosol cans.  
Contains chemicals listed on the TSCA inventory: Yes

## VIII SAFE HANDLING AND USE INFORMATION:

Respiratory Protection: N/A Ventilation: Use in well ventilated areas.  
Protective Gloves:  Yes  No Eye Protection:  Yes  No (Glasses  Goggles  )  Aprons or Lab Coats:  
 Rubber Apron:  Not applicable.

## IX SPECIAL PRECAUTIONS:

Do not spray on skin. Liquid contact may cause frostbite.  
Do not handle until the manufacturer's safety precautions have been read and understood.

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