

Material Safety Data Sheet

(MSDS)

Date of Issue: 06/01/2000

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SECTION 1 - MANUFACTURER INFORMATION

Manufacturer Name:	Decon Laboratories, Inc.	
Trade Name:	Flash Freeze™	Emergency Telephone U.S.: (800) 424-9300 CANADA: (703) 527-3887
Chemical Name or Synonym:	N/A	Info Telephone: 610-755-0800
Mfg. Address:	460 Glennie Circle	
City:	King of Prussia	State, Zip: PA 19406

SECTION II - HAZARDOUS INGREDIENTS

CAS #	Chemical Name	Percent	PEL	TLV	Other Limits Recommended
811-97-2	Tetrafluoroethane	100	N/A	N/A	1000 ppm

Additional Information: Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29 CFR 1910.1200)

SECTION III - PHYSICAL DATA

Melting Point °C:	N/A	Specific Gravity (H2O=1.0):	1.21
Freezing Point °C:		% Volatile by volume:	N/A
Boiling Point (°F):	-15.7° F @ 736mm	VOC (as packaged, -H2O)	N/A
Vapor Pressure:	96mm Hg at 77° F	Theoretical OVC (lb / gal)	N/A
Vapor Density (Air=1):	3.18 @ 77° F	Odor/Color:	Slight ethereal odor
Evaporation Rate (Butyl acetate=1):	<1	Solubility in Water:	0.15% by volume @ 77° F
Appearance/Form:	Clear liquefied gas		

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point:	Non-flammable	LEL:	UEL:
Extinguishing Media:	Non-flammable		
Special Fire Fighting Procedures:			
Unusual Fire / Explosion Hazards	Pressurized aerosol containers may vent, rupture or explode and add to flying and falling debris.		

Additional Information:

Hazard Ratings

HMIS: Health = 1 Flammability = 0 Reactivity = 0 Personal Protection = B

NFPA: Health = 1 Flammability = 0 Reactivity = 0

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects)

ACUTE	(Primary Route of Exposure)
EYES:	Contact with liquid may cause severe tissue damage due to frostbite.
SKIN:	Contact with liquid may cause frostbite, irritation, and reddening may occur due to defatting.
INHALATION:	Vapor is heavier than air and can cause suffocation by reducing oxygen available for breathing. Breathing high concentrations of vapor can cause light-headedness, giddiness, shortness of breath and may lead to narcosis, cardiac irregularities, unconsciousness or death.
INGESTION:	Although oral toxicity is low, ingestion is to be avoided.

SUBCHRONIC, CHRONIC, OTHER: None known.

Carcinogenicity Data:	NTP: None known	IARC: N	OSHA: N	OTHER: N/A
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First Aid

Eyes:	Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
Skin:	Treat for frostbite. If irritation occurs or persists, seek medical attention.
Inhalation:	Remove victim to fresh air and provide oxygen if breathing is difficult. If not breathing, give artificial respiration, preferably mouth to mouth. Do not give epinephrine or similar drugs. 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.
NOTE to Physician:	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.

SECTION VI - REACTIVITY DATA

Stability:	Stable.	Conditions to Avoid:	High Temperatures
Incompatibility (Materials to Avoid):	Alkali and alkaline earth metals, powdered Al, Zn, Bo, or Mg.		
Hazardous Decomposition or By-Products:	This product can be decomposed by high temperatures (open flames, Glowing metal surfaces, etc.) forming hydrofluoric acid and possible carbonyl fluoride.		
Polymerization:	Will not occur.		

SECTION VII - SPILL OR LEAK PROCEDURES

Spill Management:	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 Method:	Comply with all Federal and State Regulations. Do not puncture or incinerate aerosol cans. Contains chemicals listed on the TSCA Inventory: Yes

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory:	N/A
Eyes:	No.
Protective Gloves:	No.
Ventilation:	Use in well ventilated areas.
Other Clothing and Equipment:	N/A

SECTION IX - ADDITIONAL INFORMATION

Safe Handling and Storage: Do not spray on skin. Liquid contact may cause frostbite. Do not handle until the manufactures safety precautions have been read and understood.

SECTION X – TRANSPORTATION INFORMATION

DOT Hazard Class: Shipping by ground: ORM-D Consumer Commodity