MATERIAL SAFETY DATA SHEET

Trade Name: TECHNI-TOOL DUSTER

MSDS NO. 7580Z134

Revision Date:

Date Printed 06/30/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: TECHNI-TOOL DUSTER

Chemical Family: Refrigerant Gas

Synonyms: None

Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: Techni-Tool, Inc., 1547 N. Trooper Rd., Worchester, PA, 19490

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLW STEL
1,1,1,2-Tetrafluoroethane 811-97-2	95-100	none established	none established	none established	none established

Contents under pressure. Containers may rupture under fire conditions. Decomposition may occur.

3. HAZARDS IDENTIFICATION

Emergency Overview: Keep away from heat, sparks and flame. Content under pressure. "Frostbite-like" effects may occur if the liquid or

escaping vapors contact the eyes or skin. May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products. Gross inhalation overexposure may cause heart irregularities, unconsciousness or death. Vapor reduces oxygen available for breathing and is heavier than air. Workers with heart disease or compromised

heart function should limit exposure to this material.

HMIS Classification: Health: 1 Flammability: 0 Physical Hazard: 2 **NFPA Rating:** Health: 1 Flammability: 0 Reactivity: 1

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get

medical attention immediately after flushing.

Ingestion: Not applicable - product is a gas at ambient temperatures.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult

give oxygen. Get medical attention. Do not give adrenaline, epinephrin or similar drugs following exposure to this product.

Skin Contact: For exposure to liquid, immediately warm frostbite area with warm water (not to exceed 105'f). In case of massive

exposure, remove clothing while showering with warm water. Get medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C):

Flash Point Method:

Flammable Limits in Air - Lower (%):

Flammable Limits in Air - Upper (%):

Autoignition Temperature °F(°C):

NA - Gas

Not Applicable

Not Applicable

unknown

Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Use water spray to keep containers cool that

are exposed to heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

Warning!! Contents under pressure. Container may rupture under fire conditions. Decomposition may

ccur.

Hazardous Combustion Products: May decompose on contact with flames or extremely hot metal surfaces to produce toxic and

corrosive products. Liquid and gas under pressure, overheating or overpressurizing may cause gas release and/or violent cylinder bursting. Container may explode if heated due to resulting pressure rise. Some mixtures of HFCDs and/or HFCs, and air or oxygen may be combustible if pressurized

and exposed to extreme heat or flame.

Aerosol Comments: NFPA Level 1 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid breathing vapor. When

airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the

material and/or its components.

Spill Procedures: Wear protective equipment specified. Avoid all sources of ignition; heat, sparks and open flames. Use Halogen leak

detector or other suitable means to locate leaks or check atmosphere. Keep upwind. Evacuate enclosed spaces and

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disperse gas with floor-level forced-air ventilation. Exhaust vapors outdoors. Do not smoke or operate internal

combustoin engines.

Increase area ventilation. Do not puncture or incinerate container. Contents under pressure.

Environmental Precautions: Do not allow entry to the atmosphere. Recover, reclaim or recycle when practical.

7. HANDLING AND STORAGE

Handling and Storage:

Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Do not reuse this container. CAUTION: COMPRESSED GAS. Keep away from heat and open flame. Do not puncutre, incinerate or store above 120 F. Do not store in passenger compartment of automobile. Should not be mixed with air for leak testing or used for any other purpose above atmospheric pressure. Protect from light and heat

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Showers. Eyewash

stations.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Skin Protection: Avoid skin contact. Wear protective clothing and gloves.

Respiratory Protection: Use in a well ventilated area. An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are

expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquified gas.

MILD ETHER LIKE Odor: pH Value: Not Determined Vapor Pressure: 96 psia @ 25C Vapor Density (Air=1): 3.6 (Air=1.0) @ 25C Boiling Point (°F): -26.5 C @ 736 mm Hg Melting/Freezing Point: not determined Solubility in Water: Not Determined Bulk Density at 20°C: not determined Molecular Weight: Mixture

Specific Gravity (H20=1): 1.208 @ 77 F (25C)
Viscosity: Not determined.
Evaporation Rate: Not Determined

VOC Content(%): 0

Decomposition Temperature: not determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid:Keep away from heat, sparks and flame. Do not expose to heat or store at temperatures above 120 F. **Materials to Avoid:** Avoid finely powdered metals such as aluminum, magnesium or zinc. Strong oxidizers. Avoid contact with

alkali or alkaline earth metals.

Hazardous Decomposition Products: Thermal decompositoin products include hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon

dioxide and chlorine.

Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
1,1,1,2-Tetrafluoroethane 811-97-2	95-100	Inhalation	Rats	4 hr LC50 > 567,000 ppm

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
1,1,1,2-Tetrafluoroethane 811-97-2	95-100	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

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trout: 450 mg/l; 1,1,1-Trifluoroethane: 96 hour LC50 - Rainbow trout: >40 mg/l

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations. Recover, reclaim or recycle

when practical.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: CONSUMER COMMODITY

Hazard Class: ORM-D UN/NA Number: NA DOT Packing Group: NA

IMDG:

Proper Shipping Name: 1,1,1,2-Tetrafluoroethane (Refrigerant Gas R 134a)

Hazard Class: 2.3

Hazard Subclass:
UN No.:
UN3159
Packing Group:
NA
Marine Pollutant:
No

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
1,1,1,2-Tetrafluoroethane 811-97-2	95-100	not listed	not listed	none established	none established

SARA 311/312 Hazard Catagories: Acute, Chronic, Pressure

State Regulations:

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
1,1,1,2-Tetrafluoroethane 811-97-2	95-100	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. **Disclaimer:**

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