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SECTION V - REACTIVITY DATA

Unstable Conditions to Avoid: N/A
Stable

Incompatibility (Materials to Avoid): Alkaline or alkaline earth such as sodium or potassium or their hydroxides.

Hazardous Decomposition or By-products: Thermal decomposition products include carbon monoxide, carbon dioxide and hydrogen fluoride.

Hazardous Polymerization May Occur Will Not Occur
Conditions To Avoid: N/A

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SECTION VI - HEALTH HAZARD DATA
RTECS# KM5250000

If ingested, efforts should be made to remove it from the stomach. A series of subhypnotic doses of ethanol is antidotal for trifluoroethanol toxicity in animals and probably in humans. Intoxication and narcosis can result from acute or chronic exposure. Contact with the skin should be avoided to prevent dermal absorption. Spills are readily washed off with water. Inhalation of the vapors should be avoided by working in a well ventilated area. Animal studies have shown that trifluoroethanol causes severe eye damage resulting in conjunctivitis, ulcerative keratitis and edema of the iris. Subchronic inhalation exposure (6 hours per day, 5 days a week for 4 weeks) of male rats to 150 ppm of trifluoroethanol caused testicular depression (hypospermatogenesis and atrophy of the seminiferous tubules) leading to infertility lasting for at least 5 weeks after the exposure. Similar exposure to 10 ppm had no effect and the effect was transient after exposure to 50 ppm. While the significance of these observations for human safety is unknown at the present time, it is recommended that continuous exposure to atmospheric concentrations greater than 5 ppm be avoided.

Toxic Effects:

Rat: oral LD50 240 mg/kg
Rat: skin LD50 1680 mg/kg
Rat: intraperitoneal LD50 210 mg/kg
Mouse: oral LD50 366 mg/kg
Mouse: inhalation LD50 2.9 g/m³/2 hr
Mouse: intraperitoneal LD50 158 mg/kg
Mouse: intravenous LD50 250 mg/kg
Dog: intravenous LDlo 400 mg/kg

Reproductive Effects:

Male rat: inhalation TClo 100 ppm/6 hrs/14 days
Male rat: intraperitoneal TDlo 200 mg/kg/4 days
Male dog: inhalation TClo 400 mg/m³/6 hrs/8 weeks

Other Multiple Dose Data:

Rat: inhalation TClo 350 mg/m³/4 hrs/4 weeks intermittent
(changes in urine, normocytic anemia)
Dog: intraperitoneal TDlo 200 mg/kg/2 days intermittent
(temor, ataxia)
Guinea pig: inhalation TClo 350 mg/m³/4 hrs/4 weeks intermittent
(changes in urine, normocytic anemia)
Hamster: intraperitoneal TDlo 1520 mg/kg/4 days intermittent

Primary routes of entry: [X] Inhalation [X] Skin [] Eyes [] Oral

Acute Effects of Overexposure: Intoxication, narcosis, sterility and impaired spermatogenesis.

Chronic Effects of overexposure: Unknown

Carcinogenicity listing: [No] NTP [No] IARC [No] OSHA
[No] Other:

First Aid

Inhalation: Remove to fresh air. If necessary give artificial
Continued

SECTION VI - HEALTH HAZARD DATA

respiration and seek medical help.

Skin: Wash immediately with water.

Eye: Flush eyes for at least 15 minutes. Seek medical help.

Oral: Try to induce vomiting. Seek medical help.

Medical Conditions Generally Aggravated by Exposure: None known.

Other Health Hazards: None known.

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SECTION VII - PROTECTION INFORMATION

Respiratory: Self-contained breathing apparatus for emergency use.

Ventilation: Adequate general and local ventilation (explosion proof).

Eye and Face: Safety glasses or goggles and/or face shield.

Gloves: Impervious gloves.

Other equipment: Provide safety shower and eye wash facilities.

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SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

Spill, Leak, or Release: For large spills evacuate area, provide ventilation and remove ignition sources. Those involved in clean-up should wear self-contained respirators. Spills may be picked up with absorbent such as vermiculite and held in covered container for disposal.

Waste Disposal: This material may be incinerated by licensed waste disposal company. Observe all federal, state and local regulations.

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SECTION IX - OTHER INFORMATION

1. Hazardous Materials/Dangerous Goods Shipping Regulations

U.S. (49 CFR): Proper Shipping Name: Flammable liquid, Toxic, N.O.S. (2,2,2-Trifluoroethanol)
Hazard Class: 3, 6.1 ID No.: UN 1992 Packaging Group: III

IATA: Proper Shipping Name: Flammable liquid, Toxic, N.O.S. (2,2,2-Trifluoroethanol)
Hazard Class: 3, 6.1 ID No.: UN 1992 Packaging Group: III

IMDG: Proper Shipping Name: Flammable liquid, Toxic, N.O.S. (2,2,2-Trifluoroethanol)
Hazard Class 3. 6.1 ID No.: UN 1992 Packaging Group: III

2. Other Information: HMIS Labeling: H 2; F 2; R 0; P B

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REVISED: APRIL 30, 2007