

HEALTH HAZARD INFORMATION

Principle Health Hazards:

Inhalation: Vapor is heavier than air and can cause suffocation by displacing oxygen available for breathing. Contact with liquid may cause frostbite. Breathing high concentrations of vapor may cause light headedness, giddiness, shortness of breath, and may lead to narcosis, cardiac irregularities, unconsciousness or death. May cause eye irritation.

Toxicity / Exposure limits:

OSHA and ACGIH Not established, but recommend TWA 1000 PPM.

Isobutane.

Humans exposed to Isobutane, 500 PPM, 8 hours/day, 5 days/week, for 4 weeks, showed no cardiac, pulmonary or other functional abnormalities.

Chlorodifluoroethane

Inhalation - Rat - 4 HR LC50 = 128,000 PPM.

Chlorodifluoromethane. Low in toxicity at concentrations as high as 4% (40,000 ppm). Narcotic effects have been seen at 200,000 ppm. Heart efficiency (animal studies) has been reported to be reduced at concentrations of over 25,000 ppm.

Cardiac sensitization to epinephrine has been observed at concentrations of 50,000 ppm.

First Aid

Inhalation: Remove to fresh air, call a physician. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs.

Note to physicians: Because of possible increased risk or eliciting cardiac dysrhythmias, catecholamine drugs, such as epinephrine, should be considered only as a last resort in life threatening emergencies.

Eyes: Flush immediately with water for at least 15 minutes. Call a physician.

Skin: Flush with water, warm slowly (cool water) if frostbite. Call a physician.

PRECAUTIONS/PROCEDURES

Spill or leak:

Using a self-contained air supply and frostbite protection, personnel should attempt to close valves or repair the source of the leak, if it is safely possible to do so. If a large quantity is released, evacuate personnel, and allow to dissipate.

SHIPPING INFORMATION

Proper shipping name: Compressed Gas, N.O.S UN1956

DOT placard: Nonflammable gas

Do not heat above 125F

Other information:

Date revised: 05/08/00

Person responsible:

George Goble

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