

Medical MSDS
Concorde Specialty Gases
Perfluoropropane C₃F₈

MATERIAL SAFETY DATA SHEET C₃F₈

Section 1

Material Identification

Chemical Name: Perfluoropropane

Chemical Formula: C₃F₈

Chemical Family: Fluorinated hydrocarbons

Date Prepared: 9/1/2006

Concorde Specialty Gases Inc.

36 Eaton Road

Eatontown, NJ 07724

Other Designations: Octafluoropropane, CAS# 76-19-7

Section 2

Hazardous Ingredients

Exposure Limits (PPM)

Component Concentration ACGIH

TLV OSHA

PEL Other

Perfluoropropane 99+% Simple Asphyxiant

Section 3

Physical Data

Boiling Point (°C): -36.7

Vapor Pressure @ 20°C: 100.1psig

Vapor Density (Air=1): 6.69

Solubility in Water: Slight

Specific Gravity (H₂O = 1): 1.35

Percent, Volatile by Volume (%): 100

Evaporation Rate (_____ = 1): N/A

Appearance and Odor: Colorless gas with a faintly sweet odor

Section 4

Fire and Explosion Hazard Data

Flash Point and Method Flammable Limits LEL UEL

Nonflammable N/A

Extinguishing Media: Use what is appropriate for surrounding fire.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire exposed cylinders cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits toxic fumes under fire conditions.

Section 5

Reactivity Data

Stability: Stable under normal storage conditions

Incompatibility (MATERIALS TO AVOID): Alkali and alkaline earth metals

Hazardous/Decomposition Products: Fluoride compounds, HF

Hazardous Polymerization: Will not occur

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Section 6

Health Hazard Data

Routes of Entry: Inhalation, skin

Effects of over Exposure (Acute): Eye and skin contact may cause irritation. Contact with liquid may cause frostbite. This product acts as a simple Asphyxiant. Symptoms include headache, dizziness, deep breathing, nausea, and unconsciousness.

(CHRONIC): None (MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE):

None

Carcinogenicity - NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

Emergency and First Aid: Inhalation - Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Skin/Eye contact - Immediately flush with copious amounts of water for at least 15 minutes while removing contaminated clothing. Contact a physician.

Section 7

Spill or Leak Procedures

Steps to be taken: Evacuate and ventilate area. Persons involved in the control and repair of the leak should be provided with all necessary protective equipment and be properly trained for emergency situations involving this material.

Waste Disposal Method: Return cylinders to supplier for proper disposal with any valve outlet plugs or caps secured and valve protection cap in place.

Section 8

Special Protection Information

Respiratory Protection (Specify Type): Use a self-contained breathing apparatus in case of emergency or non-routine use.

Ventilation: Provide adequate general and local exhaust ventilation

Other Protective Equipment: Wear safety goggles, rubber gloves, and safety shoes. A safety shower and eyewash station should be readily available.

Section 9

Special Precautions

Precautions to be taken in handling and storing: Store in cool, dry, well-ventilated areas away from heat and sources of ignition. Keep valve protection cap on cylinders when not in use and secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

Other Precautions: Can produce cardiac sensitization to adrenaline. Containers of this material may be hazardous when emptied. Protect containers from physical damage. Do not deface cylinders or labels. Move cylinder with adequate hand truck. Qualified producers of compressed gases should refill cylinders. Shipment of a compressed gas cylinder which has not been filled by the owner or with his written consent is a violation of federal law (49 CFR)