

Medical MSDS Concorde Specialty Gases

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Concorde Specialty Gases
Sulfur Hexafluoride SF6

Medical Conditions Aggravated by

Overexposure: None

Carcinogenicity: It's not considered a carcinogenic product, according to NTP, IARC and OSHA.

MATERIAL SAFETY DATA SHEET SF6

Section 1 - Material Identification

Chemical Name: Sulfur hexafluoride
Chemical Formula: SF6
Chemical Family: Inorganic fluoride

Concorde Specialty Gases Inc.
36 Eaton Road
Eatontown, NJ 07724

In Case of Emergency:

Call Chemtrec at 800-424-9300

Updated: March 2009

Section 2 - Hazardous Ingredients

Exposure Limits (PPM)
Component Concentration ACGIH
TLV OSHA
PEL Other
Sulfur hexafluoride 100%

Section 3 - Physical Data

Boiling Point (°F): -63.90C
Vapor Pressure @ 20°C
Vapor Density (AIR = 1): 5.11
Solubility in Water cm3 /Kg H2O: 5.40
Specific Gravity (H2O = 1) @ -50°C: 1.91
Percent, Volatile by volume (%): N/A
Evaporation Rate N/A
Appearance and Odor: Colorless, odorless gas

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. If possible, move cylinders from fire area.

Unusual fire and explosion hazards: Cylinders exposed to heat or flame may vent rapidly or explode.

Section 5 - Reactivity Data

Stability: Stable under normal storage conditions
Incompatibility (Materials to Avoid): Disilane (Si2H6)

Hazardous/Decomposition Products:

SF2, S2F2, SF4, S2F10

Hazardous Polymerization: Will not occur

Section 6 - Health Hazard Data

Routes of Entry: Inhalation

Effects of overexposure (Acute): Inhalation can cause asphyxiation. Symptoms include nausea, headache, dizziness, fatigue, accelerated pulse rate, and eventual unconsciousness. May irritate eyes and skin.

Chronic: None

Section 7 - Spill or Leak Procedures

Steps to be Taken: Evacuate and ventilate area. Remove sources of heat. Leak can be detected by standard fluorocarbon detecting device. Decomposition products of SF6 may be absorbed on a 50/50 mixture of soda lime and activated alumina.

Remove leaking containers outdoors.

Waste Disposal Method: Return cylinders to suppliers 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 - Precautions to be taken in handling and storing:

Precautions to be taken in handling and storing: Store in cool, dry, well-ventilated areas away from flammable or explosive materials. Avoid moisture contact. Subject to temperatures no high than 130°F or lower than -20°F. 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: Protect containers from physical damage. Do not deface cylinders or labels. Move cylinder with adequate hand truck. Qualified producers or 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).

In case of emergency, contact Concorde for special instructions.

Concorde Specialty Gases, Inc.

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