



Material Safety Data Sheet

1. Product and Company Identification

Product name : **Hexafluoropropylene**

Chemical formula : C3F6

Synonyms : Hexafluoropropene; Perfluoropropene; Perfluoropropylene

Company : Specialty Gases of America, Inc
6055 Brent Dr.
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Hexafluoropropene	116-15-4	99+%

3. Hazards Identification

Emergency Overview

Liquid and gas under pressure.
Can cause rapid suffocation.
May cause frostbite.

Potential Health Effects

Inhalation : Inhalation of this gas can cause rapid suffocation.
Eye contact : May cause irritation to eyes.
Skin contact : May cause irritation to skin. Pressure drop through valves and piping may cause extreme cold and frostbite on contact.
Ingestion : None known.
Chronic Health Hazard : None known.

4. First Aid Measures

General advice : None.
Eye contact : Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes.
Skin contact : Immediately flush with copious amounts of water for at least 15 minutes while removing contaminated clothing.
Ingestion : None.
Inhalation : Immediately remove victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

5. Fire-Fighting Measures

Suitable extinguishing media	: Use what is appropriate for surrounding fire.
Specific hazards	: Emits toxic fumes under fire conditions. Cylinder rupture may occur under fire conditions.
Special protective equipment for fire-fighters	: Wear self contained breathing apparatus and full protective clothing. Keep fire exposed cylinders cool with water spray. Move cylinders away from fire if this can be done safely.

6. Accidental Release Measures

Personal precautions	: None.
Environmental precautions	: None.
Methods for cleaning up	: Evacuate and ventilate area. Attempt to close valves or repair leak at source.
Additional advice	: None.

7. Handling and Storage

Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

Storage

Store in well ventilated areas. Keep valve protection cap on cylinders when not in use.

8. Exposure Controls / Personal Protection

Engineering measures

Provide adequate general and local exhaust.

Personal protective equipment

Respiratory protection	: Use a self-contained breathing apparatus in case of emergency or non-routine use.
Hand protection	: Protective gloves to prevent contact with cold equipment.
Eye protection	: Safety glasses. A safety shower and eyewash station should be readily available.
Skin and body protection	: Wear suitable protective clothing and safety shoes when handling cylinders.
Remarks	: None.

9. Physical and Chemical Properties

Form	: Gas.
Color	: Colorless.
Odor	: Odorless.
Vapor pressure	: Not available.
Vapor density	: 5.18 (air = 1)
Boiling point	: -29 C
Water solubility	: Negligible.
Specific gravity	: 1.583 @ -40/4 C
Evaporation rate	: Not applicable.

10. Stability and Reactivity

Stability : Stable under normal conditions.
Conditions to avoid : Storage in poorly ventilated areas.
Materials to avoid : Oxidizing agents.
Hazardous decomposition products : Toxic carbon monoxide and hydrogen fluoride.

11. Toxicological Information

Toxicity Data

LC50 1 hr, rat = 5600 ppm.

Acute Health Hazard

Ingestion : Not available.
Inhalation : Not available.
Skin : Not available.

12. Ecological Information

No adverse ecological effects are expected.

13. Disposal Considerations

Waste from residues / unused products : Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood. If the cylinders are refillable type, return cylinders to supplier with any valve outlet plugs or caps secured and valve protection caps in place.
Contaminated packaging : Return cylinder to supplier.

14. Transport Information

DOT (US only)

Proper shipping name : Hexafluoropropylene
Class : 2.2
UN/ID No. : UN1858
Labeling : Non-Flammable Gas

Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

15. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es)

Material is not listed in appendix A of 29 CFR 1910.119 as highly hazardous chemical.

TCSA

Material is listed in TSCA inventory.

SARA

The threshold planning quantity for material is 10000 lbs.

Number in Annex 1 of DIR 67/548

Not listed in annex 1.

16. Other Information

Prepared by : Specialty Gases of America, Inc.

For additional information, please visit our website at www.americangasgroup.com.