



Safety Data Sheet

HEXAFLUOROPROPANE, R236FA

www.advancedspecialtygases.com

Section 1: Product and Company Identification

Advanced Specialty Gases
135 Catron Dr. Reno, NV 89512
775-356-5500

Product Code: HEXAFLUOROPROPANE, R236FA

Section 2: Hazards Identification



Warning

Hazard Classification:

Gases Under Pressure

Hazard Statements:

Contains gas under pressure; may explode if heated

Precautionary Statements

Storage:

Protect from sunlight.
Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

CAS #

690-39-1

Chemical Substance	Chemical Family	Trade Names
1,1,1,3,3,3 – Hexafluoropropane R236fa		Bistrifluoromethylmethane; 1,1,1,3,3,3-Hexafluoropropane; R 236fa; HFC-236fa; 2,2-Dihydroperfluoropropane

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Remove contaminated clothing. Wash skin with lukewarm water for 15 minutes.	Flush eyes with water for 15 minutes. Seek immediate medical attention.	Seek medical attention.	Move victim to fresh air. Use artificial respiration if not breathing. Administer oxygen.	

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Non-flammable		▪

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary personnel away.	Avoid contact with waterways, and soil.	Stop leak if possible without risk.

Methods for Cleanup	Other Information
Contact emergency personnel.	

Section 7: Handling and Storage

Handling	Storage
Store in a cool dry place.	Protect cylinders from damage. Close valve after use and when empty.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines
1000 ppm AIHA WEEL TWA

Engineering Controls

No specific controls are needed.

Eye Protection	Skin Protection	Respiratory Protection
Splash resistant safety goggles.	Cold insulating clothing.	

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Liquid	Colorless	Colorless	N/A	Liquid	N/A	N/A

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Non-flammable	Non-flammable	Not available	Not applicable	Not applicable	Not applicable

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
29.5 F	-144 to -136 F	1956 mmHg @ 25C	(air=1) 5.3 calculated	(water=1) 1.371	Insoluble	N/A	Not available	Not available	Not available

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
152.05	F3-C-C-H2-C-F3	Not available	Not available	Not available	Not available	

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable	Stable	Bases, alkali metals, oxidizing materials

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon, hydrogen fluoride	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
LC50 inhalation: 457,000 ppm	Not available	Cardiac sensitization, unconsciousness

Eye Irritation	Skin Irritation	Sensitization
Frostbite	Frostbite	May cause frostbite. Central nervous system depression.

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not available	Not mutagenic	Not available	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: Not available Invertebrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

Section 13: Disposal Considerations

Dispose in accordance with applicable federal and local regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
1,1,1,3,3,3-Hexafluoropropane	3163	2.2	Not applicable	2.2	75	Not available	Not available

Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
1,1,1,3,3,3-Hexafluoropropane	3163	2.2	2.2

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not available	Not available	Not available

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Not available	Not available	Not available	Not available	Not available

SARA 372.65

Not available

OSHA Process Safety

Not available

State Regulations

CA Proposition 65
Not listed

Canadian Regulations

WHMIS Classification
A

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Not available	Not available	Not available

Section 16: Other Information

NFPA Rating
HEALTH=1 FIRE=0 REACTIVITY=1

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard