



# Safety Data Sheet

## UN 2424, Octafluoropropane, 2.2

www.advancedspecialtygases.com

### Section 1: Product and Company Identification

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

Product Code: UN 2424, Octafluoropropane, 2.2

### 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 #
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76-19-7
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Chemical Substance	Chemical Family	Trade Names
Octafluoropropane	Halogenated Alkane	Halon-38, halocarbon 218, perfluoropropane, refrigerant gas R238, Freon 218; Genetron 218; C3F8; UN 2424; 1,1,1,2,2,3,3,3-Octafluoropropane; R 218

## Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Flush skin with lukewarm water for 15 minutes.	Flush eyes with lukewarm water for 15 minutes.	Not likely route of exposure	Remove victim to fresh air. If breathing is difficult administer artificial respiration. Get medical help immediately.	Consider oxygen.

## Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Non-flammable. Use suitable extinguishing media for surrounding fire.	Non-flammable	<ul style="list-style-type: none"> <li>Wear self-contained breathing apparatus.</li> </ul>

## Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Contact emergency personnel. Keep unnecessary people away.	Avoid contamination of environment.	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 place. Secure cylinders from falling.	High pressure gas. Protect cylinder from damage.

## Section 8: Exposure Controls/Personal Protection

Exposure Guidelines
Not established.

### Engineering Controls

No specific controls are needed.

Eye Protection	Skin Protection	Respiratory Protection
Wear goggles	Wear chemical resistant clothing	Wear self-contained breathing apparatus.

### 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

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Gas	Clear	Colorless	N/A	Gas	Faint odor, sweet odor	N/A

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
-34.15°F (-36.75°C)	-233.84°F (-147.69°C)	114.8 psia (791.5 kPa abs)	6.61 (Air=1)	6.5	Not available	Not available	Not available	High	Not available

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
188.03 g/mole	C3-F8	0.4996	Not available	100%	Not available	

## Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressures.	Stable at normal temperatures and pressures.	Not known

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Fluorides	Polymerization may occur.

## Section 11: Toxicology Information

### Acute Effects

Oral LD50	Dermal LD50	Inhalation
LDLo Intravenous Rat 25 mL/kg	Not available	Asphyxiant. High concentrations may cause dizziness, nausea, vomiting, disorientation, confusion, incoordination, and narcosis. Effects are due to suffocation.

Eye Irritation	Skin Irritation	Sensitization
Liquid: frostbite, blurred vision	Liquid can cause frostbite. Prolonged exposure can cause harmful amounts to be absorbed.	Can cause rapid suffocation. May cause frostbite.

### Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not available	Not available	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

Return cylinder to supplier. Dispose of in accordance with applicable 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
Octafluoropropane	UN2424	2.2	Not applicable	Nonflammable gas	75 kg or L	150 kg	N/A

### Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
Octafluoropropane	UN2424	2.2	Not applicable

## Section 15: Regulatory Information

### U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

### SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	No	No	Yes

### SARA 372.65

Not regulated.

### OSHA Process Safety

Not regulated.

### 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)
Listed on inventory.	N/A	N/A

## Section 16: Other Information

NFPA Rating
HEALTH=1 FIRE=0 REACTIVITY=0

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