# AIR LIQUIDE

Octafluoropropane Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/12/2015 Supersedes: 02/04/2015 Version: 1.1

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	Octafluoropropane
Chemical name	Perfluoropropane
CAS No	76-19-7
Product code Other means of identification	SG-1001-00964 Perfluoropropane
Stree means or dentilication	R218
I.2. Relevant identified uses of the s	substance or mixture and uses advised against
Jse of the substance/mixture	: Healthcare Gas Test gas/Calibrationgas.
1.3. Details of the supplier of the sat	iety data sheet
Air Liquide	
700 Post Oak Boulevard	
louston, TX 77056 - USA ⊑1-800-819-1704	
www.us.airliguide.com	
.4. Emergency telephone number	
mergency number	CHEMTREC: 1-800-424-9300
ECTION 2: Hazards identificatio	n
.1. Classification of the substance	or mixture
Classification (GHS-US)	H280
iquefied gas full text of H-phrases: see section 16	H280
.2. Label elements GHS-US labeling	
lazard pictograms (GHS-US)	
	GHS04
ignal word (GHS-US)	😳 Warning
lazard statements (GHS-US)	H280 - Contains gas under pressure; may explode if heated
(,	OSHA-H01 - May displace oxygen and cause rapid suffocation
	CGA-HG01 - May cause frostbite
Precautionary statements (GHS-US)	P202 - Do not handle until all safety precautions have been read and understood
	P271 - Use only outdoors or in a well-ventilated area
	P280 - Wear eye protection, face protection, protective gloves, protective clothing P302 - IF ON SKIN: Thaw frosted parts with lukewarm water. Do not rub affected area, Get
	immediate medical advice/attention
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
	P308+P313 - If exposed or concerned: Get medical advice/attention
	P403 - Store in a well-ventilated place
	P501 - Dispose of contents/container in accordance with local/regional/national/international
	regulations
	CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
	CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty
	CGA-PG10 - Use only with equipment rated for cylinder pressure
	CGA-PG14 - Approach suspected leak area with caution
0.0.0	CGA-PG21 - Open valve slowly
3. Other Hazards	
o additional informationavailable	C)
4. Unknown acute toxicity (GHS-U	5)
ot applicable	tion on ingradianta
ECTION 3: Composition/informa	
1. Substance	
ubstance type	Mono-constituent
Name	Product identifier % Classification (GHS-US)
Octafluoropropane (Main constituent)	(CAS No) 76-19-7 > 99 Liquefied gas, H280
ull text of H-phrases: see section 16	
.2. Mixture	
otapplicable	
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SECTION 4: First aid measures	
4.1. Description of first aid measu	Jres
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
First-aid measures after eye contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/injuries afterinhalation	: May displace oxygen and cause rapid suffocation.
Symptoms/injuries after skin contact	: May cause frostbite.
Symptoms/injuries after eye contact	: Contact with the product may cause cold burns or frostbite.
Symptoms/injuries afteringestion	: Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous administration	: Notknown.
Chronic symptoms	: Adverse effects not expected from this product.
4.3. Indication of any immediate n	nedical attention and special treatment needed
If you feel unwell, seek medical advice. If	
SECTION 5: Firefighting measu	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from I	
Fire hazard	: The product is not flammable.
Explosion hazard	Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: None known.
5.3. Advice for firefighters	
Firefighting instructions	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protect	ive equipment and emergency procedures
General measures	: Ensure adequate ventilation.
5.1.1. For non-emergency personne	el l
Protective equipment	: Wear protective equipment consistent with the site emergency plan.
Emergency procedures	<ul> <li>Escape the danger area by the closest safe route. Close doors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep</li> </ul>
5.1.2. For emergency responders	upwind.
Protective equipment	<ul> <li>Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.</li> </ul>
Emergency procedures	: Evacuate and limit access. Ventilate area.
5.2. Environmental precautions	
Try to stop release if safe to do so.	
5.3. Methods and material for cont	ainment and cleaning up
For containment	: Try to stop release if safe to do so.
Methods for cleaning up	<ul> <li>Try to stop release it safe to do so.</li> <li>Dispose of this material and its container in accordance with local regulations.</li> </ul>
nethous for clearning up	· Dispose of this material and its container in accordance with local regulations.

6.4. Reference to other sections See also Sections 8 and 13.

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SECTION 7: Handling a	nd storage
7.1. Precautions for safe	
	ssed : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Close valve after each use and when empty.
Precautions for safe handling	<ul> <li>Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilate area.</li> </ul>
Hygiene measures	Do not eat, drink or smoke when using this product.
	storage, including any incompatibilities
Technical measures	Comply with applicable regulations.
Storage conditions	Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area.
Incompatible products	: Noneknown.
Incompatible materials 7.3. Specific end use(s)	: None known.
7.3. Specific end use(s) See Section 1.2.	
and the second state of th	controls/personal protection
8.1. Control parameters	
Octafluoropropane (76-19-7)	
ACGIH	Not applicable
OSHA	Not applicable
8.2. Exposure controls	
Appropriate engineering controls	s : Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation.
	Systems under pressure should be regularly checked for leakages. Oxygen detectors should be used when
and all tradems	asphyxiating gases may be released. Consider workpermit system e.g. for maintenance activities.
Hand protection	: Wear working gloves when handling gas containers. 29 CFR 1910.138: Hand Protection.
Eye protection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing.
Respiratory protection	: None necessary during normal and routine operations. See Sections 5 & 6.
Thermal hazard protection	: None necessary during normal and routine operations.
Environmental exposure control:	waste gas treatment.
Other information	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical an	d chemical properties
	physical and chemical properties
Physical state	: Gas
Appearance	Clear, colorless gas.
Molecular mass	: 188 g/mol
Color	Colorless
Odor	Odorless
Odor threshold	: No Data Available
pH	: No data available
Relative evaporation rate (butyla	
Relative evaporation rate (ether-	
	=1) : Not applicable
Melting point	=1) : Not applicable : -183 °C
Freezing point Boiling point	: -183 °C : No data available : -36.7 °C
Freezing point Boiling point	: -183°C : No data available
Freezing point Boiling point Flash point Critical temperature	: -183 °C : No data available : -36.7 °C
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature	: -183°C : No data available : -36.7°C : No Data Available : 72°C : Not applicable
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature	: -183°C : No data available : -36.7°C : No Data Available : 72°C : Not applicable : > 400°C
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas)	: $-183 \degree C$ : No data available : $-36.7 \degree C$ : No Data Available : $72 \degree C$ : Not applicable : > 400 $\degree C$ : See Section 2.1 and 2.2
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure	: $-183 \degree C$ : No data available : $-36.7 \degree C$ : No Data Available : $72 \degree C$ : Not applicable : $> 400 \degree C$ : See Section 2.1 and 2.2 : No data available
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C	: $-183 \degree C$ : No data available : $-36.7 \degree C$ : No Data Available : $72 \degree C$ : Not applicable : > 400 °C : See Section 2.1 and 2.2 : No data available : 16000 hPa
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C	: $-183 \degree C$ : No data available : $-36.7 \degree C$ : No Data Available : $72 \degree C$ : Not applicable : > 400 $\degree C$ : See Section 2.1 and 2.2 : No data available : 16000 hPa : No data available
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Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density	<ul> <li>-183°C</li> <li>No data available</li> <li>-36.7°C</li> <li>No Data Available</li> <li>72°C</li> <li>Not applicable</li> <li>&gt; 400°C</li> <li>See Section 2.1 and 2.2</li> <li>No data available</li> <li>16000 hPa</li> <li>No data available</li> <li>1.32</li> <li>Heavier than air</li> </ul>
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility	: $-183 ^{\circ}$ C : No data available : $-36.7 ^{\circ}$ C : No Data Available : $72 ^{\circ}$ C : Not applicable : $> 400 ^{\circ}$ C : See Section 2.1 and 2.2 : No data available : $16000 ^{\circ}$ hPa : No data available : $1.32$ : Heavier than air : No data available
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility Log Pow	: $-183 \degree C$ : No data available : $-36.7 \degree C$ : No Data Available : $72 \degree C$ : Not applicable : $> 400 \degree C$ : See Section 2.1 and 2.2 : No data available : $16000 hPa$ : No data available : $1.32$ : Heavier than air : No data available : No data available
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Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Pecomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, dynamic	: $-183 \degree C$ : No data available : $-36.7 \degree C$ : No Data Available : $72 \degree C$ : Not applicable : $> 400 \degree C$ : See Section 2.1 and 2.2 : No data available : $16000 hPa$ : No data available : $1.32$ : Heavier than air : No data available : Not applicable
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Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, dynamic Explosive properties Dxidizing properties	<ul> <li>-183°C</li> <li>No data available</li> <li>-36.7°C</li> <li>No Data Available</li> <li>72°C</li> <li>Not applicable</li> <li>&gt; 400°C</li> <li>See Section 2.1 and 2.2</li> <li>No data available</li> <li>16000 hPa</li> <li>No data available</li> <li>1.32</li> <li>Heavier than air</li> <li>No data available</li> <li>No tapplicable</li> <li>Not applicable</li> <li>Nore.</li> </ul>
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, dynamic Explosive properties Dxidizing properties Explosive limits	<ul> <li>-183°C</li> <li>No data available</li> <li>-36.7°C</li> <li>No Data Available</li> <li>72°C</li> <li>Not applicable</li> <li>&gt; 400°C</li> <li>See Section 2.1 and 2.2</li> <li>No data available</li> <li>16000 hPa</li> <li>No data available</li> <li>1.32</li> <li>Heavier than air</li> <li>No data available</li> <li>No tapplicable</li> <li>Not applicable</li> </ul>
Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, kinematic Explosive properties Dxidizing properties Explosive limits 9.2. Other information	<ul> <li>-183°C</li> <li>No data available</li> <li>-36.7°C</li> <li>No Data Available</li> <li>72°C</li> <li>Not applicable</li> <li>&gt; 400°C</li> <li>See Section 2.1 and 2.2</li> <li>No data available</li> <li>16000 hPa</li> <li>No data available</li> <li>1.32</li> <li>Heavier than air</li> <li>No data available</li> <li>No tapplicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable - not flammable.</li> <li>Not applicable - not flammable</li> </ul>
Melting point Freezing point Boiling point Flash point Critical temperature Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Vapor pressure at 50 °C Relative vapor density at 20 °C Relative density Relative gas density Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, dynamic Explosive properties Dxidizing properties Explosive limits 9.2. Other information Gas group Additional information	<ul> <li>-183°C</li> <li>No data available</li> <li>-36.7°C</li> <li>No Data Available</li> <li>72°C</li> <li>Not applicable</li> <li>&gt; 400°C</li> <li>See Section 2.1 and 2.2</li> <li>No data available</li> <li>16000 hPa</li> <li>No data available</li> <li>1.32</li> <li>Heavier than air</li> <li>No data available</li> <li>No tapplicable</li> <li>Not applicable</li> <li>Nore.</li> </ul>

# Octafluoropropane Safety Data Sheet

SECTION 10: Stability and reactivity	
10.1. Reactivity	
None known.	
10.2. Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous reactions None known.	
10.4. Conditions to avoid	
None under recommended storage and handling co	onditions (see section 7).
10.5. Incompatible materials None known.	
	dous decomposition products should not be produced.
SECTION 11: Toxicological information	n
11.1. Information on toxicological effects Acute toxicity :	Notclassified
Octafluoropropane ( \f)76-19-7	
LC50 inhalation rat (ppm)	830000 ppm/4h
ATE US (gases) Skin corrosion/irritation	830000.000 ppmV/4h
Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion Symptoms/injuries after ingestion Symptoms/injuries upon intravenous administration Chronic symptoms	<ul> <li>Not classified</li> <li>Source for the product may cause cold burns or frostbite.</li> <li>Ingestion is not considered a potential route of exposure.</li> <li>Not known.</li> <li>Adverse effects not expected from this product.</li> </ul>
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer :	No known effects from this product.
SECTION 13: Disposal considerations	
3.1. Waste treatment methods	
	Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.
Vaste disposal recommendations :	Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com formore guidance on suitable disposal methods.

## Octafluoropropane

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### SECTION 14: Transport information

In accordance with DOT Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Department of Transportation (DOT) Hazard Classes

Hazard labels (DOT)

: 2.2 - Non-flammable gas

Octafluoropropane

UN2424 Octafluoropropane, 2.2



UN2424

DOT Special Provisions (49 CFR 172.102)

- DOT Packaging Exceptions (49 CFR 173.xxx)
- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Quantity Limitations Passengeraircraft/rail
- (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only(49
- CFR 175.75)

DOT Vessel Stowage Location

### Additional information

Other information

### ADR

Transport document description Class (ADR) Hazard identification number (Kemler No.) Classification code (ADR) Hazard labels (ADR)

Orange plates

Tunnel restriction code (ADR) LQ Excepted quantities (ADR)

Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG)

Air transport UN-No.(IATA) Proper Shipping Name (IATA) Class (IATA) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.

2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

- : None
- 304
- : 314;315
- : 75 kg
- : 150 kg
- : A The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

: No supplementary information available.

- : UN 2424 OCTAFLUOROPROPANE (REFRIGERANT GAS R 218), 2.2, (C/E)
- : 2 Gases
- : 20
- : 2A
- : 2.2 Non-flammable compressed gas





- : C/E : 120ml
- : E1

### : UN2424

- : OCTAFLUOROPROPANE (REFRIGERANT GAS R.218)
- : 2.2 Non-flammable, non-toxic gases
- : UN2424
- : OCTAFLUOROPROPANE (REFRIGERANT GAS R 218)
- : 2.2 Gases : Non-flammable, non-toxic

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### SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

15.2. International regulations CANADA

### No additional information available

**EU-Regulations** No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

### Not classified

15.2.2. National regulations

15.3. US State regulations bla dditta and infe

NO	auditional	informationavailable	

Indication of changes	: Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.
Other information	: This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.
Full text of H-phrases:	

Gases under pressure Liquefied gas
Contains gas under pressure; may explode if heated

SDS US (GHS HazCom 2012) This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.