

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name	● Octafluorocyclopentene
Synonyms	● 1,2,3,3,4,4,5,5,-Octafluorocyclopentene; FC-C1418 1,2,3,3,4,4,5,5,-Octafluoro-1-Cyclopentene; Flon C 1418; Fron C 1418; Octafluoro-, Perfluorocyclopentene; Zeorora ZFL 58
CAS Number	● 559-40-0
Product Code	● 60023
EC Number	● 209-203-0
Molecular Formula	● :C 5:F 8:

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)	● Dry etching agent for production of semiconductor; chemical vapor deposition agent.
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1.3 Details of the supplier of the safety data sheet

Manufacturer	● Air Liquide 2700 Post Oak Blvd. Houston, TX 77056 United States www.us.airliquide.com sds@airliquide.com
Telephone (Technical)	● 713-896-2896
Telephone (Technical)	● 800-819-1704

1.4 Emergency telephone number

Manufacturer	● 800-424-9300 - CHEMTREC
Manufacturer	● +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	● Skin Irritation 2 - H315 ● Eye Irritation 2 - H319 ● Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335 ● Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
DSD/DPD	● Irritant (Xi) R36/37/38, R67

2.2 Label Elements

CLP

WARNING

- Hazard statements**
- H315 - Causes skin irritation
 - H319 - Causes serious eye irritation
 - H335 - May cause respiratory irritation
 - H336 - May cause drowsiness or dizziness

Precautionary statements

- Prevention**
- P261 - Avoid breathing gas.
 - P264 - Wash thoroughly after handling.
 - P271 - Use only outdoors or in a well-ventilated area.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P321 - Specific treatment, see supplemental first aid information.
 - P332+P313 - If skin irritation occurs: Get medical advice/attention.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.

- Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 - P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R36/37/38 - Irritating to eyes, respiratory system and skin.
 - R67 - Vapours may cause drowsiness and dizziness.

- Safety phrases**
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

- DSD/DPD**
- This product is considered dangerous according to the European Directive 67/548/EEC.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture**OSHA HCS 2012**

- Skin Irritation 2 - H315
- Eye Irritation 2A - H319
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

2.2 Label elements**OSHA HCS 2012****WARNING**



- Hazard statements**
- Causes skin irritation - H315
 - Causes serious eye irritation - H319
 - May cause respiratory irritation - H335
 - May cause drowsiness or dizziness - H336

Precautionary statements

- Prevention**
- Avoid breathing gas. - P261
 - Wash thoroughly after handling. - P264
 - Use only outdoors or in a well-ventilated area. - P271
 - Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
 - Call a POISON CENTER or doctor/physician if you feel unwell. - P312
 - IF ON SKIN: Wash with plenty of soap and water. - P302+P352
 - Specific treatment, see supplemental first aid information. - P321
 - If skin irritation occurs: Get medical advice/attention. - P332+P313
 - Take off contaminated clothing and wash before reuse. - P362
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - If eye irritation persists: Get medical advice/attention. - P337+P313
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed. - P403+P233
 - Store locked up. - P405
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

NFPA





Section 3 - Composition/Information on Ingredients

3.1 Substances

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Octafluorocyclopentene	CAS:559-40-0 EINECS:209-203-0	100%	NDA	EU DSD/DPD: Self Classified - Xi R36/37/38, R67 EU CLP: Self Classified - Eye Irrit. 2, H319; Skin Irrit. 2, H315; STOT SE 3: Resp. Irrit., H335; STOT SE 3: Narc., H336 OSHA HCS 2012: Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3: Resp. Irrit.; STOT SE 3: Narc.; Simp. Asphyx.; HNOX -Health-Frostbite

3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Do not use mouth-to-mouth method if victim ingested the substance.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Sealed containers may rupture when heated.
Octafluorocyclopentene is non-flammable and will not support combustion.

Hazardous Combustion Products

- If involved in a fire, Octafluorocyclopentene will release toxic compounds including halogenated compounds, hydrogen fluoride and oxides of carbon.

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.

6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up**Containment/Clean-up Measures**

- Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of spill for later disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage**7.1 Precautions for safe handling****Handling**

- Use only with adequate ventilation. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist/vapors/spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities**Storage**

- Keep container tightly closed. Store in a cool, dry, well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection**8.1 Control parameters****Exposure Limits/Guidelines**

- Currently there are no applicable exposure limits established for this material.

8.2 Exposure controls**Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other

engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Colorless liquid with a distinct odor.
Color	Colorless	Odor	Distinct odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	27 C(80.6 F)	Melting Point	< -70 C(< -94 F)
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	1.58 Water=1	Water Solubility	0.0076 %
Viscosity	3.8 Centipoise (cPs, cP) or mPas	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	614 mmHg (torr) @ 26 C(78.8 F)	Vapor Density	> 1 Air=1
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not flammable.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat.

10.5 Incompatible materials

- Octafluorocyclopentene is incompatible with strong oxidizers, alkali and alkaline earth metals, powdered metals including aluminum, zinc, and beryllium.

10.6 Hazardous decomposition products

- Products of thermal decomposition include halogenated compounds, hydrogen fluoride and oxides of carbon.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

- No data available.

Skin

Acute (Immediate)

- Causes skin irritation.

- Chronic (Delayed)**
- No data available.
- Eye**
- Acute (Immediate)**
- Causes serious eye irritation.
- Chronic (Delayed)**
- No data available.
- Ingestion**
- Acute (Immediate)**
- May cause irritation if swallowed.
- Chronic (Delayed)**
- No data available.

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

- Product waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2810	Toxic, liquids, organic, n.o.s. (Octafluorocyclopentane)	6.1	NDA	NDA
TDG	UN2810	TOXIC LIQUID, ORGANIC, N.O.S. (Octafluorocyclopentane)	6.1	NDA	NDA
IMO/IMDG	UN2810	TOXIC LIQUID, ORGANIC, N.O.S. (Octafluorocyclopentane)	6.1	NDA	NDA
IATA/ICAO	UN2810	Toxic, liquids, organic, n.o.s. (Octafluorocyclopentane)	6.1	NDA	NDA

14.6 Special precautions for user

- Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- No data available

Section 15 - Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications** • Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Octafluorocyclopentene	559-40-0	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Octafluorocyclopentene	559-40-0	No	Yes	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Octafluorocyclopentene	559-40-0	Yes

Canada**Labor****Canada - WHMIS - Classifications of Substances**

- Octafluorocyclopentene 559-40-0 Not Listed

Canada - WHMIS - Ingredient Disclosure List

- Octafluorocyclopentene 559-40-0 Not Listed

Environment**Canada - CEPA - Priority Substances List**

- Octafluorocyclopentene 559-40-0 Not Listed

China**Environment****China - Ozone Depleting Substances - First Schedule**

- Octafluorocyclopentene 559-40-0 Not Listed

China - Ozone Depleting Substances - Second Schedule

- Octafluorocyclopentene 559-40-0 Not Listed

China - Ozone Depleting Substances - Third Schedule

- Octafluorocyclopentene 559-40-0 Not Listed

Other**China - Annex I & II - Controlled Chemicals Lists**

• Octafluorocyclopentene	559-40-0	Not Listed
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China - Dangerous Goods List

• Octafluorocyclopentene	559-40-0	Not Listed
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China - Export Control List - Part I Chemicals

• Octafluorocyclopentene	559-40-0	Not Listed
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Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Octafluorocyclopentene	559-40-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Octafluorocyclopentene	559-40-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Octafluorocyclopentene	559-40-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Octafluorocyclopentene	559-40-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Octafluorocyclopentene	559-40-0	Not Listed
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Germany**Environment****Germany - TA Luft - Types and Classes**

• Octafluorocyclopentene	559-40-0	Not Listed
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Germany - Water Classification (VwVwS) - Annex 1

• Octafluorocyclopentene	559-40-0	Not Listed
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Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Octafluorocyclopentene	559-40-0	Not Listed
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Germany - Water Classification (VwVwS) - Annex 3

• Octafluorocyclopentene	559-40-0	Not Listed
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Other**Germany - Specifically Regulated Chemicals in TRGS**

• Octafluorocyclopentene	559-40-0	Not Listed
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Portugal**Other****Portugal - Prohibited Substances**

• Octafluorocyclopentene	559-40-0	Not Listed
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United Kingdom**Environment****United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air**

• Octafluorocyclopentene	559-40-0	Not Listed
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Other**United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**

• Octafluorocyclopentene	559-40-0	Not Listed
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United Kingdom - List of Dangerous Substances in Water

• Octafluorocyclopentene	559-40-0	Not Listed
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United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - OSHA - Specifically Regulated Chemicals

• Octafluorocyclopentene	559-40-0	Not Listed
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Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Octafluorocyclopentene	559-40-0	Not Listed
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United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - California - Proposition 65 - Developmental Toxicity

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Octafluorocyclopentene	559-40-0	Not Listed
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United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Octafluorocyclopentene	559-40-0	Not Listed
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U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Octafluorocyclopentene	559-40-0	Not Listed
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15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information**Last Revision Date**

- 08/September/2014

Preparation Date

- 08/September/2014

Disclaimer/Statement of Liability

- To the best of Air Liquide'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 gas mixture 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.

Key to abbreviations

NDA = No Data Available