

**FC02-06****2-(Perfluorohexyl)ethylene**

Revised 02-November-2018

**1. PRODUCT AND COMPANY IDENTIFICATION****Product Identifier**

Product Name	2-(Perfluorohexyl)ethylene
Catalog Number	FC02-06
Brand	Fluoryx Labs
CAS no.	25291-17-2

**Relevant identified uses of the Substance or mixture and uses advised against**

Identified uses:	Laboratory chemicals. Manufacture of substances
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**Details of the supplier of the safety data sheet**

Company	<b>Fluoryx Labs</b> 3650 Research Way, #22 Carson City, NV 89706 USA +1 (510) 329-9149 (Telephone) +1 (510) 686-8799 (Fax) www.fluoryx.com
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**Emergency call:**

+01-813-248-0585 (International)
+1-800-255-3924 (USA)

**2. HAZARDS INFORMATION****Classification of the substance or mixture****Emergency Overview**

<b>OSHA Hazards</b>	No known OSHA hazards
<b>GHS Classification</b>	Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

**Hazard statement(s)**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Precautionary statement(s)**

P261  
P305 + P351 + P338

Avoid breathing dust/fume/gas/mist/vapors/spray.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Potential Health Effects****Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Ingestion**

May be harmful if swallowed.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS****Substances**

Synonyms

3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluoro-1-octene;  
1-Octene, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-;  
ZONYL™ PFHE;  
Capstone™ 62U;  
3,3,4,4,5,5,6,6,7,7,8,8,8-Tricedafluoro-1-octen;  
1,1,2-Trihydroperfluoro-1-octene;  
1H,1H,2H-Tridecafluoro-1-octene

Chemical formula

C<sub>8</sub>H<sub>3</sub>F<sub>13</sub>  
CF<sub>3</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CH=CH<sub>2</sub>

Hazardous Components

Material	Molecular Weight	CAS #	EC #	TSCA
2-(Perfluorohexyl)ethylene	346.09	25291-17-2	246-791-8	Listed

**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed** No data available

**5. FIREFIGHTING MEASURES****Extinguishing media**

**Suitable extinguishing media**

Use media such as "alcohol" foam, dry chemical, or carbon dioxide.

**Special hazards arising from the substance or mixture** Carbon oxides, Hydrogen fluoride

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

Use water spray to cool unopened containers.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of vapor or mist. Ensure adequate ventilation. Vapors can accumulate in low areas.

For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Contain spillage, and then soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up (see section 13).

**Reference to other sections**

For disposal see section 13.

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**7. HANDLING AND STORAGE**

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**Precautions for Safe Handling**

Avoid contact with skin and eyes. Avoid formation of mist. Provide appropriate exhaust ventilation at places where mist or vapors are formed. Normal measures for preventive fire protection.

**Conditions for Safe Storage**

Keep away from open flames and heated surfaces above 200 °C (392 °F). Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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Contains no substances with occupational exposure limit values.

**Personal protective equipment**

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Wear impervious clothing. The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Form	Liquid
Color	Colorless

### Safety Data

pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point	105 °C at 760 mm Hg
Flash Point	> 93 °C °C (closed cup)
Ignition Temperature	No data available
Auto-ignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Thermal Decomposition Temperature	> 200 °C
Vapor Pressure	32 mm Hg
Density	1.52 g/mL @ 25 °C
Water Solubility	Negligible
Partition Coefficient ( <i>n</i> -octanol/water)	No data available
Relative Vapor Density (Air = 1)	> 8
Odor	Ethereal
Odor Threshold	No data available
Evaporation Rate	No data available

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## 10. STABILITY AND REACTIVITY

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<b>Storage stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Homopolymerization will not occur. Copolymerization can occur in the presence of free radical sources, other monomers, and heat/UV light.
<b>Conditions to avoid</b>	Keep away from open flames and heated surfaces above 200 °C (392 °F).
<b>Materials to avoid</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity (Globally Harmonized System)**

**Single exposure**

Inhalation – may cause respiratory irritation

**Repeated exposure**

No data available

**Aspiration Hazard**

No data available

**Potential Health Effects**

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Ingestion**

May be harmful if swallowed.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic Effects**

No data available

**Additional Information**

RTECS: not available

**12. ECOLOGICAL INFORMATION**

**Toxicity**

No data available

**Persistence and degradability**

Does not readily degrade.

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company or contact Fluorox to return unused product.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORTATION INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

IATA

Not dangerous goods

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**15. REGULATORY INFORMATION**

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**OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooct-1-ene  
CAS-No. 25291-17-2**New Jersey Right To Know Components**3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooct-1-ene  
CAS-No. 25291-17-2**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

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**Legal Disclaimer:**

Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of SDS