

Safety Data Sheet

FC12-08

1H-Perfluorooctane

Revised 21-November-2016

Product Identifier	
Product name	1H-Perfluorooctane
Catalog number	FC12-08
Brand	Fluoryx Labs
CAS number	335-65-9
Relevant Identified Uses of the Subst Identified uses	ance or Mixture and Uses Advised Against Laboratory chemicals. Synthesis of substances.
Details of the Supplier of the Safety D	
Company	Fluoryx Labs
. ,	3650 Research Way, #22
	Carson City, NV 89706
	USA
	+1 (510) 329-9149 (Telephone)
	+1 (510) 686-8799 (Fax)
	www.fluoryx.com
Emergency Call (ChemTel)	+01-813-248-0585 (International)
	+1-800-255-3924 (ÙSA)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity – single exposure (Category 3), respiratory system, H335

GHS Label Elements, Including Precautionary Statements

Pictogram

Signal Word

GHS07: Exclamation mark



Warning

Hazard statement(s) H315 H319 H335

Precautionary statement(s) P261 P264 Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling.

1 302 1 1 332	ii ON ONIN. Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at
	rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.
D 040	, ,
P312	Call a POISON CENTER or doctor/ physician if you
	feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/
	attention.
P362	
F302	Take off contaminated clothing and wash before
	reuse.
P403 + P233	Store in a well-ventilated place. Keep container
	tightly closed.
P405	Store locked up.
	•
P501	Dispose of contents/container to an approved waste
	disposal plant.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS - none

3. COMPOSITION AND INFORMATION ON INGREDIENTS	
Synonyms	<i>1H</i> -Perfluorinated- <i>n</i> -octane; Heptadecafluorooctane; 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Heptadecafluorooctane
Formula	C_8HF_{17} CF ₃ CF ₂ H
Molecular Weight	420.07 g/mol
CAS Number	335-65-9
EC Number	206-395-8

Hazardous Components

Component	Classification	Concentration
1H-Perfluorooctane	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	≤100%
For the full text of the H-Stateme	nts mentioned in this Section, see Section 16.	

Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES _____

Description of 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	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Consult a doctor.

If swallowed

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 labelling (see section 2.2) and/or in section 11

Indications of Any Immediate Medical Attention No data available.

indications of Any initiediate medical Attention	
5. FIREFIGHTING MEASURES	
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special Hazards Arising from the Substance	Hazardous decomposition products formed under fire conditions - carbon oxides and hydrogen fluoride.
Advice for Firefighters	Wear self contained breathing apparatus for fire fighting.
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Do not let product enter drains.
Methods for Cleaning Up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.
7. HANDLING AND STORAGE	
Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid formation of mist or respirable particles. Provide appropriate exhaust ventilation at places where mist or vapors are formed. Normal measures for preventive fire protection. Keep away from open flames and heated surfaces above 200 °C (392 °F).
Conditions for Safe Storage	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.
Specific End Use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
8. EXPOSURE CONTROLS AND PERSONAL PR	ROTECTION
Components with Workplace Control Paramete	rs Contains no substances with occupational exposure limit values.
Personal Protective Equipment	
Eye/face 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 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. **Body protection** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). **Control of Environmental Exposure** Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Liquid, clear
Color	Colorless
Safety Data	
у На	No data available
Melting point/freezing point	-19 °C
Boiling point	116 °C @ 760 mm Hg
Flash point	> 100 °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	No data available
Density	1.76 g/mL @ 25 °C
Water solubility	Negligible
Partition coefficient (n-octanol/water)	No data available
Relative vapor density (air = 1)	> 1
Odor	No data available
Odor threshold	No data available
Evaporation rate	No data available
Viscosity	No data available
Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid	Keep away from open flames and heated surfaces above 200 °C (392 °F).
Incompatible Materials	Avoid strong oxidizing agents and strong bases.
Hazardous Decomposition Products	Decomposition temperature > 200 °C. Hazardous decomposition products formed under fire conditions - carbon oxides and hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION Acute Toxicity Oral J D50 No data available

Oral LD50 Inhalation LC50 Dermal LD50 Other information on acute toxicity	No data available No data available No data available No data available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Eye Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	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 Harmon Single exposure Repeated exposure	n ized System) Inhalation – may cause respiratory irritation No data available
Aspiration Hazard	No data available
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. No data available
12. ECOLOGICAL INFORMATION	
Toxicity	No data available

Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
PBT and vPvB Assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	No data available
13. DISPOSAL CONSIDERATIONS	
Product	Offer non-recyclable solutions to a licensed disposal company or contact Fluoryx to return unused product.
Contaminated Packaging	Dispose of as unused product.
14. TRANSPORTATION INFORMATION	
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
ΙΑΤΑ	Not dangerous goods
15. REGULATORY INFORMATION	
TSCA Status	Not on the inventory.
DSL Status	Not listed on the Canadian NDSL list.
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	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right to Know Components	No components are subject to the New Jersey Right to Know Act.
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.
16. OTHER INFORMATION	

Full Text of H-Statements Referred to Under Sections 2 and 3.

Eye Irrit.	Eye irritation.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation.
STOT SE	Specific target organ toxicity - single exposure.

HMIS Rating

NFPA

Health hazard	1
Flammability	0
Physical hazards	0
Rating	
Health hazard	1
Fire	0
Reactivity hazard	0

Reactivity hazard

Further Information

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