

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 1100369 Issue date: 19.02.2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification	 Substance 1-(Perfluoro-n-octyl)decane 138472-76-1 1100-3-69 C18H21F17 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-Heptadecafluorooctadecane MFCD04038345
1.2. Recommended use and restrictions on	use
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Supplier	
SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixtu	ure
GHS US classification Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity – Single exposure, Cate Respiratory tract irritation Full text of H statements : see section 16	H315 Causes skin irritation H319 Causes serious eye irritation egory 3, H335 May cause respiratory irritation
2.2. GHS Label elements, including precaut	ionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray. P264 - Wash skin thoroughly after handling

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P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of soap and water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

 $\label{eq:P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove$

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eve irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it 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

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
1-(Perfluoro-n-octyl)decane (Main constituent)	CAS-No.: 138472-76- 1		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get 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 medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effective states and effective symptoms and effective symp	ffects (acute and delayed)
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

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4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extin	guishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.	
5.2. Specific hazards arising from t	he chemical	
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.	
5.3. Special protective equipment a	nd precautions for fire-fighters	
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". 	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	equipment and emergency procedures	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.	
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up	
For containment Methods for cleaning up Other information	 Stop leak if safe to do so. Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storag	e, including any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-(Perfluoro-n-octyl)decane (138472-	76-1)
No additional information available	
8.2. Appropriate engineering controls	
o.z. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
8.3. Individual protection measures/P	ersonal protective equipment
Hand protection:	
protective gloves. 29 CFR 1910.138: Hand P	Protection
Eye protection:	
Chemical goggles or safety glasses. Face sh	ield. 29 CFR 1910.133: Eye and Face Protection
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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection

Personal protective equipment symbol(s):



Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties		
9.1. Information on basic phy	ysical and chemical properties	
Physical state	: Solid	
Appearance	: Low melting solid.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 33 – 35 °C	
Freezing point	: No data available	

Boiling point

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological e	entects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability	
1-(Perfluoro-n-octyl)decane (138472-76-1)	
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.
12.3. Bioaccumulative potential	
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1-(Perfluoro-n-octyl)decane (138472-76-	1)
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Sewage disposal recommendations	: See the EPA's Interim Guidance on PFAS Destruction and Disposal.	
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	
Ecology - waste materials	: This material is considered to be a "Forever chemical". Prevent any possible release to the	

environment. Do not discharge into drains. Take all necessary measures to prevent accidental

discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

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14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not regulated Not regulated Not regulated Not regulated 	
14.3. Transport hazard class(es)		
DOT Transport hazard class(es) (DOT)	: Not regulated	
TDG Transport hazard class(es) (TDG)	: Not regulated	
IMDG Transport hazard class(es) (IMDG)	: Not regulated	
IATA Transport hazard class(es) (IATA)	: Not regulated	
14.4. Packing group		
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not regulated Not regulated Not regulated Not regulated Not regulated 	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT Not regulated		
TDG Not regulated		
IMDG Not regulated		
IATA Not regulated		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		

1-(Perfluoro-n-octyl)decane	CAS-No. 138472-76-1	100%

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15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases			
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H335	May cause respiratory irritation		
NFPA health haza		3 - Materials that, under emergency conditions, can cause serious or bermanent injury.	
NEDA fire bozard		Deminanent injury.	

NFPA fire hazard NFPA reactivity 1 - Materials that must be preheated before ignition can occur.
0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,
	solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT
	react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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