

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 3130308 Issue date: 07.04.2016 Revision date: 18.12.2023 Version: 1.1

## **SECTION 1: Identification**

1.1. Identification	
Product form Substance name CAS-No. Product code Formula Synonyms Other means of identification	<ul> <li>Substance</li> <li>1H,1H-Perfluorooctylamine</li> <li>307-29-9</li> <li>3130-3-08</li> <li>C8H4F15N</li> <li>1H,1H-Pentadecafluorooctylamine</li> <li>MFCD00042460</li> </ul>
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 mixt	ure

#### **GHS US classification**

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Acute toxicity (inhalation) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation

:

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)

: Danger

Signal word (GHS US) Hazard statements (GHS US)

H302+H332 - Harmful if swallowed or if inhaled : H314 - Causes severe skin burns and eye damage

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	H318 - Causes serious eye damage
	H335 - May cause respiratory irritation
Precautionary statements (GHS US)	: P260 - Do not breathe fumes, mist, spray, vapors.
	P264 - Wash skin thoroughly after handling
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell
	P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P304+P340 - If inhaled: Remove person to fresh air and keep 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.
	P310 - Immediately call a POISON CENTER or doctor/ physician
	P321 - Specific treatment (see supplemental first aid instructions on this label)
	P330 - Rinse mouth.
	P363 - Wash contaminated clothing 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
1H,1H-Perfluorooctylamine (Main constituent)	CAS-No.: 307-29-9		Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 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 immediate medical advice/attention.

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First-aid measures after eye contact	<ul> <li>Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.</li> <li>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.</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.</li> </ul>
4.2. Most important symptoms and effects (a	cute 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.
Symptoms/effects after inhalation :	Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishin	g 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 the cher	nical		
Fire hazard Explosion hazard	<ul> <li>Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.</li> <li>Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.</li> </ul>		
5.3. Special protective equipment and pred	cautions for fire-fighters		
Firefighting instructions Protection during firefighting	<ul> <li>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protectiv	ve equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
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".		
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.		

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 a	nd cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.

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Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion- proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: 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 storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.</li> <li>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.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures Storage conditions Incompatible materials Storage area	<ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use. Air sensitive. Keep contents under inert gas.</li> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul>	

: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
1H,1H-Perfluorooctylamine (307-29-9)	
No additional information available	
8.2. 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/Per	rsonal protective equipment
Hand protection:	
protective gloves. 29 CFR 1910.138: Hand Pro	otection
Eye protection:	

Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

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

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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 physical and chemical properties

Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 75 °C (@ 50 mm Hg)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,714 g/ml (@ 25 °C)
Molecular mass	: 399,1 g/mol
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
Refractive index	: 1,3051 (@ 27 °C)

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

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#### **10.4. Conditions to avoid**

Keep away from heat, sparks and flame.

**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 effects		
Acute toxicity (oral)	Harmful if swallowed. Not classified Harmful if inhaled.	
1H,1H-Perfluorooctylamine (307-29-9)		
ATE US (oral)	500 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1,5 mg/l/4h	
Skin corrosion/irritation :	Causes severe skin burns.	
Serious eye damage/irritation :	Causes serious eye damage.	
Respiratory or skin sensitization :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
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.	
Symptoms/effects after inhalation	Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.	

SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
1H,1H-Perfluorooctylamine (307-29-9)		
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.	

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12.3. Bioaccumulative potential	
1H,1H-Perfluorooctylamine (307-29	-9)
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	5
13.1. Disposal methods	
Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information Ecology - waste materials	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>See the EPA's Interim Guidance on PFAS Destruction and Disposal.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> <li>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.</li> </ul>

SECTION 14: Transport information	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN2735 : UN2735 : 2735 : 2735
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Polyamines, liquid, corrosive, n.o.s.</li> <li>AMINES, LIQUID, CORROSIVE, N.O.S.</li> <li>AMINES, LIQUID, CORROSIVE, N.O.S.</li> <li>Amines, liquid, corrosive, n.o.s.</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8 CORROSIVE
<b>TDG</b> Transport hazard class(es) (TDG) Hazard labels (TDG)	: 8 : 8

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IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	•
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: III : III : III : III
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx)	<ul> <li>UN2735</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location	<ul> <li>60 L</li> <li>A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.</li> </ul>

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TDG UN-No. (TDG)       : UN2735         TDG Special Provisions       : 16 - 1) The technical name of the most dangerous substance related to the pr be shown, in parentheses, on the shipping document following the shipping na with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must parentheses, on a small means of containment or on a tag following the shipping accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Saft 2) subsection (1), the technical name for the following dangerous goods is not shown on a shipping document or on a small means of containment when Car domestic transport or an international convention for international transport pr disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S; o) UN3140, A LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQI TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example "Food and Drugs Act".         Explosive Limit and Limited Quantity Index Excepted quantities (TDG)       : 5 L         Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index       : 5 L         Emergency Response Guide (ERG) Number       : 153         IMDC Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : 5 L	
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Excepted quantities (TDG)       : E1         Passenger Carrying Road Vehicle or Passenger       : 5 L         Carrying Railway Vehicle Index       :         Emergency Response Guide (ERG) Number       : 153         IMDG       :         Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : 5 L	ame in accordance t also be shown, in bing name in fety Marks. t required to be nadian law for rohibits the ALKALOIDS, ALKALOID SALTS, UID, FLAMMABLE,
Passenger Carrying Road Vehicle or Passenger       : 5 L         Carrying Railway Vehicle Index       :         Emergency Response Guide (ERG) Number       : 153         IMDG       :         Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : 5 L	
Carrying Railway Vehicle Index Emergency Response Guide (ERG) Number : 153 IMDG Special provision (IMDG) : 223, 274 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1	
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IMDG         Special provision (IMDG)       : 223, 274         Limited quantities (IMDG)       : 5 L         Excepted quantities (IMDG)       : E1	
Special provision (IMDG): 223, 274Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1	
Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1	
Excepted quantities (IMDG) : E1	
Packing instructions (IMDG) : P001, LP01	
IBC packing instructions (IMDG) : IBC03	
Tank instructions (IMDG) : T7	
Tank special provisions (IMDG) : TP1, TP28	
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE	
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES	
Stowage category (IMDG) : A	
Segregation (IMDG) : SGG18, SG35	
Properties and observations (IMDG)       : Colourless to yellowish liquids or solutions with a pungent odour. Miscible with water. When involved in a fire, evolve toxic gases. Corrosive to most metals, e and its alloys. Reacts violently with acids. Cause burns to skin, eyes and muctions with a pungent odour.	especially to copper
ΙΑΤΑ	
PCA Excepted quantities (IATA) : E1	
PCA Limited quantities (IATA) : Y841	
PCA limited quantity max net quantity (IATA) : 1L	
PCA packing instructions (IATA) : 852	
PCA max net quantity (IATA) : 5L	
CAO packing instructions (IATA) : 856	
CAO max net quantity (IATA) : 60L	
Special provision (IATA) : A3, A803	

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

: 8L

Not applicable

ERG code (IATA)

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SECTION 15: Regulatory information	1		
15.1. US Federal regulations			
All components of this product are present and li (TSCA) inventory, except for:	isted as Active on the United States	Environmental Protection Agency Toxic Substances Cor	ntrol Act
1H,1H-Perfluorooctylamine	CAS-No. 307-29-9	100%	
15.2. International regulations			
CANADA No additional information available			
EU-Regulations No additional information available			
National regulations			
1H,1H-Perfluorooctylamine (307-29-9)			

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 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	
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
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.
Safety Data Sheet (SDS), USA	