

Safety Data Sheet 210131N according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/21/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 12,12,12-Trifluorododecan-1-ol
CAS No	: 20208-17-7
Product code	: 2101-3-1N
Formula	: C12H23F3O
Other means of identification	: MFCD28901290
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safety da	ata sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@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 mix	xture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatioSTOT SE 3H335 - May cause respiratory irritaFull text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> <li>lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>

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2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS L	JS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	% Classification (GHS-US)	
12,12,12-Trifluorododecan-1-ol (Main constituent)	(CAS No) 20208-17-7	<= 100 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
ull text of H-phrases: see section 16	· · · · · · · · · · · · · · · · · · ·	· · · ·	
3.2. Mixture			
lot applicable			
SECTION 4: First aid measures			
1.1. Description of first aid measure	es		
irst-aid measures general	where possible). Move the affected pe	l, seek medical advice immediately (show the label rsonnel away from the contaminated area.	
irst-aid measures after inhalation	respiration. Get medical advice/attention		J
irst-aid measures after skin contact	: Wash with plenty of soap and water. G		.,
irst-aid measures after eye contact	present and easy to do. Continue rinsi	5	s, if
irst-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get medical adv	nything by mouth to an unconscious person. Rinse ice/attention.	
.2. Most important symptoms and	effects, both acute and delayed		
symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	and effects are described in the labelling (see section	
I.3. Indication of any immediate me	edical attention and special treatment needed	i de la companya de l	
reat symptomatically.			
SECTION 5: Firefighting measur	es		
.1. Extinguishing media			
uitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	. Dry powder. Water spray. Use extinguishing media	
.2. Special hazards arising from th	e substance or mixture		
ïre hazard	: Thermal decomposition generates: Ca	rbon oxides. Hydrogen fluoride.	
.3. Advice for firefighters			
irefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting		othing in combination with self contained breathing	
	apparatus. For further information refe	r to section 8: "Exposure controls/personal protection"	•
<b>SECTION 6: Accidental release r</b>	measures		
	ve equipment and emergency procedures		
General measures		ure adequate air ventilation. Do not breathe dust. Do	not
.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with	suitable protective equipment may intervene.	
5.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without s	uitable protective equipment. For further information	

refer to section 8: "Exposure controls/personal protection".

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

**Environmental precautions** 

6.2.

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6.3.	Methods and material for containment and cleaning up		
For cont	ainment	leak if safe to do so. Dike for recovery or ab	sorb with appropriate material.
Methods	for cleaning up	nize generation of dust. Take up large spills nical absorbent. Use explosion-proof equipm rbent. Sweep or shovel spills into appropriate	ent. Take up small spills with dry chemical
Other inf	ormation	disposal of solid materials or residues refer to	section 13 : "Disposal considerations".
6.4.	Reference to other sections		
No addit	ional information available		

SECTION 7: Handling and storage		
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, fumes, mist, spray, vapors. 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.	
.2. Conditions for safe storage, 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**

No additional information available

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.

<b>SECTION 9: Physical and chemic</b>	al properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Low melting solid.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: 39 - 40 °C	
Freezing point	: No data available	
Boiling point	: 118 °C (@ 4 mm Hg)	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	
Relative density	: No data available	

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 240.31 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

# 9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way 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	3	
Acute toxicity	: 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	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	

Aspiration hazard

: Not classified

SECT	ION 12: Ecological information			
12.1.	Toxicity			
No addi	No additional information available			
12.2.	Persistence and degradability			
No addi	itional information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No addi	itional information available			

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# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerat	ions
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	on

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

## TDG

No additional information available

## Transport by sea

No additional information available

### Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

Substances Control Act (TSCA) inventory exception.		
12,12,12-Trifluorododecan-1-ol	CAS No 20208-17-7	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

# 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 and/or reproductive harm

# **SECTION 16: Other information**

## Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	<ul> <li>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)</li> </ul>
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.

# SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.