

1,1,1-Trifluorononan-2-ol Safety Data Sheet 2102329 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/09/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1,1,1-Trifluorononan-2-ol
CAS No	: 26902-80-7
Product code	: 2102-3-29
Formula	: C9H17F3O
Other means of identification	: MFCD02183563
1.2. Relevant identified uses of the substa	nce 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	ture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irritatio STOT SE 3 H335 - May cause respiratory irrita	
Full 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)	 P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling 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 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 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

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
1,1,1-Trifluorononan-2-ol		(CAS No) 26902-80-7	<= 100	Skin Irrit. 2, H315
(Main constituent)				Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				· · · · · · · · · · · · · · · · · · ·
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
1.1. Description of first aid measures				
irst-aid measures general		se of accident or if you feel unwell, seek		
First aid massures often inholation		e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comfort iration. Get medical advice/attention.	able for breathin	ig. It not breathing, give artificial
irst-aid measures after skin contact	•	h with plenty of soap and water. Get med	lical advice/atter	ntion.
First-aid measures after eye contact		ediately flush eyes thoroughly with water		
	•	ent and easy to do. Continue rinsing. Get		
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 effects, both acute and delayed				
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section
Treat symptomatically. SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard		mal decomposition generates: Carbon ox		
Explosion hazard		of explosion if heated under confinement	t. Use water spra	ay or fog for cooling exposed
	CONT	ainers.		
3. Advice for firefighters			alaala ee ee	als af assult als
Firefighting instructions		ise of fire: Evacuate area. Fight fire remo	•	
Protection during firefighting		r gas tight chemically protective clothing i aratus. For further information refer to sec		
				· ·
SECTION 6: Accidental release me				
5.1. Personal precautions, protective of			aunto ala una di	ation Do not brooth a real function
Seneral measures		cuate unnecessary personnel. Ensure ade or or spray.	equate air ventila	ation. Do not breathe gas, turnes,
.1.1. For non-emergency personnel				
mergency procedures	: Only	qualified personnel equipped with suitab	le protective equ	uipment may intervene.
.1.2. For emergency responders				
Protective equipment	: Dor	ot attempt to take action without suitable	protective equir	ment. For further information
······································		to section 8: "Exposure controls/persona		
Emergency procedures	: Gas level	vapor heavier than air. May accumulate i	n confined spac	es, particularly at or below ground

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6.2. Environmental precautions	S	
Avoid release to the environment. Notif	fy authorities if product enters sewers or public waters.	
6.3. Methods and material for c	containment and cleaning up	
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
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 section	S	
No additional information available		
SECTION 7: Handling and sto	orage	
7.1. Precautions for safe handl	ing	
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 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.	
7.2. Conditions for safe storage	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.	

8.1. Control parameters

No additional information available

8.2. Exposure 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.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
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.
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 : No data available pН : No data available Melting point Freezing point : No data available Boiling point : No data available 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 12/06/2016 EN (English US) SDS ID: 2102329

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 198.23 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	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

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	ON 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential

No additional information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal conside			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized inc	inerator equipped with an after	burner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/containe	r in accordance with licensed of	collector's sorting instructions.
Additional information	: Recycle the material as far a	s possible.	
SECTION 14: Transport informa	tion		
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 inform	ation		
15.1. US Federal regulations			
All components of this product are listed Substances Control Act (TSCA) inventor		States Environmental Protection	on Agency Toxic
		2002 80 7	4000/

1,1,1-Trifluorononan-2-ol CAS No 26902-80-7 100%		
	CAS NO 20902-00-7	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	 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.

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.