

5,5,5-Trifluoropentan-2-ol Safety Data Sheet 2102302 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/20/2017 Version: 1.0

SECTION 1: Identification	
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1.1. Identification	
Product form	: Substance
Substance name	: 5,5,5-Trifluoropentan-2-ol
CAS No	: 352-58-9
Product code	: 2102-3-02
Formula	: C5H9F3O
Other means of identification	: MFCD20353526
1.2. Relevant identified uses of the su	ubstance 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 safe	ty data sheet
SynQuest Laboratories, Inc. P.O. Box 309	
Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs.	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	bn
2.1. Classification of the substance o	r mixture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irr STOT SE 3 H335 - May cause respiratory 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				
lo additional information available				
.4. Unknown acute toxicity (GHS US)				
lot applicable				
ECTION 3: Composition/informat	ion on i	ngredients		
.1. Substance				
Substance type	: Mor	io-constituent		
Name		Product identifier	%	Classification (GHS-US)
5,5,5-Trifluoropentan-2-ol (Main constituent)		(CAS No) 352-58-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16		,		·
2. Mixture				
lot applicable				
ECTION 4: First aid measures				
1. Description of first aid measures				
rst-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personnel		
irst-aid measures after inhalation	: Ren	nove person to fresh air and keep comfort iration. Get medical advice/attention.	•	
irst-aid measures after skin contact	: Was	sh with plenty of soap and water. Get med	lical advice/atter	ition.
irst-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
irst-aid measures after ingestion		NOT induce vomiting. Never give anything th out with water. Get medical advice/atte		unconscious person. Rinse
.2. Most important symptoms and ef	ects, both	acute and delayed		
ymptoms/injuries		most important known symptoms and effort and/or in section 11.	ects are describe	ed in the labelling (see section
.3. Indication of any immediate medi	cal attenti	on and special treatment needed		
reat symptomatically.				
ECTION 5: Firefighting measures				
.1. Extinguishing media				
uitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p ropriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
2. Special hazards arising from the	substance	or mixture		
ire hazard	: The	rmal decomposition generates: Carbon o>	kides. Hydrogen	fluoride.
xplosion hazard		of explosion if heated under confinement ainers.	t. Use water spra	ay or fog for cooling exposed
3. Advice for firefighters				
irefighting instructions	: In ca	ase of fire: Evacuate area. Fight fire remo	tely due to the ri	sk of explosion.
rotection during firefighting		ar gas tight chemically protective clothing aratus. For further information refer to sec		
ECTION 6: Accidental release me				
.1. Personal precautions, protective				
eneral measures		cuate unnecessary personnel. Ensure ade or or spray.	equate air ventila	ation. Do not breathe gas, fumes,
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 : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
mergency procedures	: Gas leve	/vapor heavier than air. May accumulate i I.	n confined spac	es, particularly at or below ground
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6.2. Environmental precautions				
Avoid release to the environment. Notify authorities if product enters sewers or public waters.				
6.3. Methods and material for contain	nent 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 sections				
No additional 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 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, inclue	ding any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.			

7.2. Conditions for safe storage, including any incompatibilities			
Technical measures : 0	Comply with applicable regulations.		
Storage conditions : I	Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.		
Incompatible materials : I	Refer to Section 10 on Incompatible Materials.		
Storage temperature : 2	2 - 8 °C Use explosion proof refrigerator		
Storage area :	Store in dry, well-ventilated area.		

SECTION 8: Exposure controls/personal protection

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

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9.1. Information on basic physical a	nd 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	: 130 - 131 °C
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
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Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 142.12 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	

Refractive index

: 1.333 (@ 20 °C)

SECTION 10: Stability and reactivity					
10.1.	Reactivity				
No add	itional information available				
10.2.	Chemical stability				
The product 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 away from heat, sparks and flame.					

10.5. Incompatible materials

Strong acids. Strong bases. 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.

11.1. Information on toxicological effects	
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

SECTION	JN 12: Ecological Information					
12.1.	Toxicity					
No additi	onal information available					
12.2.	Persistence and degradability					
No additi	onal information available					
12.3.	Bioaccumulative potential					
No additi	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

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 informat	ion	
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	ation	
15.1. US Federal regulations		

5.5.5-Trifluoropentap-2-ol CAS No.352-58-9 100%			
	5,5,5-Trifluoropentan-2-ol	CAS No 352-58-9	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.