

# 5,5,5-Trifluoro-2-methylpentan-2-ol

Safety Data Sheet 2103311 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/24/2018 Version: 1.0

SECTION 1: Identification	
I.1. Identification	
Product form	: Substance
Substance name	: 5,5,5-Trifluoro-2-methylpentan-2-ol
CAS No	: 372-60-1
Product code	: 2103-3-11
formula	: C6H11F3O
Other means of identification	: MFCD20353754
.2. Relevant identified uses of the se	ubstance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ: Γ (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs	
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
.1. Classification of the substance of	
Classification (GHS-US)	
TOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	/ irritation
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
lazard 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 fumes, mist, spray, vapors</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> </ul>

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/information</b>	on in	gredients		
3.1. Substance				
Substance type :	Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
5,5,5-Trifluoro-2-methylpentan-2-ol (Main constituent)		(CAS No) 372-60-1	<= 100	Skin Irrit. 2, H315 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				
4.1. Description of first aid measures				
First-aid measures general :		se of accident or if you feel unwell, seek repossible). Move the affected personnel		
First-aid measures after inhalation :		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.
First-aid measures after eye contact :		diately flush eyes thoroughly with water the 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 :		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical at	ttentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media :		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the subs	tance o	or mixture		
		nal decomposition generates: Carbon ox	ides. Hvdrogen	fluoride.
	Risk (	of explosion if heated under confinement iners. May form flammable/explosive vap	. Use water spra	
5.3. Advice for firefighters				
Firefighting instructions :	In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ris	sk of explosion.
Protection during firefighting :		gas tight chemically protective clothing i atus. For further information refer to sect		
SECTION 6: Accidental release measu	res			
6.1. Personal precautions, protective equip				
General measures :		uate unnecessary personnel. Ensure ade or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
	Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. For emergency responders	_			
Protective equipment :		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information

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Emergency procedures	<ul> <li>Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.</li> </ul>
6.2. Environmental precautions	
Avoid release to the environment. Notify auth	orities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
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, inclu	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	· Store in dry cool well-ventilated area

Storage area : Store in dry, cool, 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		
9.1. Information on basic physical and	d 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	: 129 - 130 °C	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	

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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
Relative vapor density at 20 °C	: No data available
Molecular mass	: 156.1461 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

: 1.3645 (@ 20 °C)

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
No additional information available
SECTION 11: Toxicological information

### 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 12: Ecological information**

### 12.1. Toxicity

No additional information available

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12.2.	Persistence and degradability		
No addit	No additional information available		
12.3.	Bioaccumulative potential		
No addit	tional information available		
12.4.	Mobility in soil		
No addi	No additional information available		
12.5.	Other adverse effects		
No addit	tional information available		

SECTION 13: Disposal consideration	
13.1. Waste treatment methods	
Waste treatment methods	· Pomovo to an authorized incinerator equipped with an afterburger and a flue are serubber
	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>
Waste disposal recommendations Additional information	: Recycle the material as far as possible.
	. Recycle the material as fai as possible.
<b>SECTION 14: Transport information</b>	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
<b>TDG</b> No additional information available	
Transport by sea	

Transport by sea

No additional information available

### Air transport

No additional information available

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### 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 except for:

5,5,5-Trifluoro-2-methylpentan-2-ol	CAS No 372-60-1	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

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### **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

. .

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
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	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

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.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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