

2,3,3-Trifluoropropene Safety Data Sheet 1300360 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/02/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2,3,3-Trifluoropropene
CAS No	: 158664-13-2
Product code	: 1300-3-60
Formula	: C3H3F3
Other means of identification	: MFCD10565608
1.2. Relevant identified uses of the s	substance 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 saf	iety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097	ca
nfo@synguestlabs.com - www.synguestlabs	s.com
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	or mixture
Classification (GHS-US)	
	en and cause rapid suffocation
Flam. Gas 1 H220 - Extremely flammab	
Liquefied gas H280 - Contains gas unde	er pressure; may explode if heated
Skin Irrit. 2 H315 - Causes skin irritatio	on
Eye Irrit. 2A H319 - Causes serious eye	
STOT SE 3 H335 - May cause respirat	tory irritation
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
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GHS-US labeling	
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GHS-US labeling	
GHS-US labeling	$: \qquad \qquad$
GHS-US labeling Hazard pictograms (GHS-US)	
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Danger
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Danger : H220 - Extremely flammable gas
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	P332+P313 - If skin irritation occurs: Ge P337+P313 - If eye irritation persists: G P362+P364 - Take off contaminated clo P377 - Leaking gas fire: Do not extingui P381 - Eliminate all ignition sources if si P403 - Store in a well-ventilated place P403+P233 - Store in a well-ventilated p P405 - Store locked up P410+P403 - Protect from sunlight. Stor P501 - Dispose of contents/container to	et medical advice/a othing and wash it b sh, unless leak can afe to do so place. Keep contair re in a well-ventilate	ttention efore reuse be stopped safely ner tightly closed ed place
2.3. Other hazards Other hazards not contributing to the classification	: May cause frostbite.		
2.4. Unknown acute toxicity (GHS L	JS)		
Not applicable			
SECTION 3: Composition/inform	nation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2,3,3-Trifluoropropene (Main constituent)	(CAS No) 158664-13-2	<= 100	Simple Asphy, H380 Flam. Gas 1, H220 Liquefied gas, H280 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 measure			
First-aid measures general	: In case of accident or if you feel unwell, where possible). Move the affected personal statements and the statement of the		
First-aid measures after inhalation	<ul> <li>where possible). Move the affected personnel away from the contaminated area.</li> <li>Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.</li> </ul>		
First-aid measures after skin contact	: Thaw frosted parts with lukewarm water advice/attention.	: Thaw frosted parts with lukewarm water. Do no rub affected area. Get immediate medical	
First-aid measures after eye contact	thoroughly with water for at least 15 min	: Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush eyes thoroughly with water for at least 15 minutes. Get immediate medical advice/attention.	
First-aid measures after ingestion	: Due to its physical form, exposure to this chemical is not likely. 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	: The most important known symptoms a 2.2) and/or in section 11.	nd effects are desc	ribed in the labelling (see section
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.	alal harman di si ta	
Symptoms/injuries after skin contact Symptoms/injuries after eye contact	<ul> <li>Contact with the liquid the may cause contact with the liquefied gas may</li> </ul>		l nossibly permanant avainium dua
	to frostbite from rapid liquid evaporation		possibly permanent eye injury due
	edical attention and special treatment needed		
No additional information available			
SECTION 5: Firefighting measur	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. appropriate for surrounding fire.	Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from th	ne substance or mixture		
Fire hazard	: Thermal decomposition generates: Carl		
Explosion hazard	<ul> <li>Contains gas under pressure; may exple exposed containers. May form flammab</li> </ul>		
	exposed containers, may form naminab	ie/explosive vapoi-	

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5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
<b>SECTION 6: Accidental re</b>	lease measures
6.1. Personal precautions,	protective equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. May cause suffocation by reducing oxygen available for breathing. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency pe	rsonnel
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.

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

: Do not attempt to take action without suitable protective equipment. For further information

: 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

# 6.1.2. For emergency responders Protective equipment

**Environmental precautions** 

#### Emergency procedures

6.2.

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

ignition.

6.3.	Methods and material for contain	ment and cleaning up
For con	tainment	: Stop leak if safe to do so.
Method	s for cleaning up	: Ventilate area.
Other ir	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4	Reference to other sections	

#### 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	: Pressurized container: Do not pierce or burn, even after use. Handle empty containers with care because residual vapors are flammable. Close valve after each use and when empty.
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, gas, 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.
Safe handling of the gas receptacle	: Securely chain cylinders when in use and protect against physical damage.
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, includi	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. 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.

posure controls/	

#### 8.1. Control parameters

No additional information available

8.2.	Exposure controls			
Approp	priate engineering controls	should be available in the im	e work station. Emergency eye wash fountains a mediate vicinity of any potential exposure. Syste checked for leakage. Oxygen detectors should eleased.	ems under
Hand p	protection	: Protective gloves. 29 CFR 19	10.138: Hand Protection.	
Eye pr	otection	: Chemical goggles or safety g	lasses. Face shield. 29 CFR 1910.133: Eye and	d Face Protection.
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Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Thermal hazard protection	: Cold insulating gloves.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	I chemical properties
Physical state	: Gas
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	: 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
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 96.05 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
0.2 Other information	

9.2. Other information
No additional information available

#### **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

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Keep away from heat, sparks and flame.

#### 10.5. Incompatible materials

Alkali metals. Finely divided metals (Al, Mg, Zn). 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.

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SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	i de la construcción de la constru
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
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Contact with the liquid the may cause cold burns/frostbite.
Symptoms/injuries after eye contact	: Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.

#### **SECTION 12: Ecological information** 12.1. Toxicity No additional information available 12.2. Persistence and degradability No additional information available 12.3. **Bioaccumulative potential** No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects No additional information available

<b>SECTION 13: Disposal consideratio</b>	ns
13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations Additional information	<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> <li>Recycle the material as far as possible.</li> </ul>
<b>SECTION 14: Transport information</b>	
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3161 Liquefied gas, flammable, n.o.s., 2.1
UN-No.(DOT)	: UN3161
Proper Shipping Name (DOT)	: Liquefied gas, flammable, n.o.s.
Transport hazard class(es) (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)	: 2.1 - Flammable gas
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 304

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DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3161
Proper Shipping Name (IMDG)	: LIQUEFIED GAS, FLAMMABLE, N.O.S.
Class (IMDG)	: 2 - Gases
Air transport	
UN-No. (IATA)	: 3161
Proper Shipping Name (IATA)	: Liquefied gas, flammable, n.o.s.

#### 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:

2,3,3-Trifluoropropene CAS No 158664-13-2 100%
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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

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Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Gas 1	Flammable gases Category 1
Liquefied gas	Gases under pressure Liquefied gas
Simple Asphy	Simple Asphyxiant
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H380	May displace oxygen and cause rapid suffocation

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.
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	: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
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.