

Safety Data Sheet 1100735 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/03/2015 Revision date: 05/31/2019 Version: 1.1

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1,2,2-Trichloro-3,3,3-trifluoropropane		
CAS No	: 7125-83-9		
Product code	: 1100-7-35		
Formula	: C3H2Cl3F3		
Other means of identification	: MFCD01320783		
1.2. Relevant identified uses of the su	bstance 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 safet 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 - www.synquestlabs.com			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identificatio	n		
2.1. Classification of the substance or	mixture		
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Ozone 1 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere 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 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere 		
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 		

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P501 - Dispose of contents/container to an approved waste disposal plant P502 - Refer to manufacturer/supplier for information on recovery/recycling

	1 002			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatic	on on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
1,2,2-Trichloro-3,3,3-trifluoropropane (Main constituent)		(CAS No) 7125-83-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Ozone 1, H420
Full text of H-phrases: see section 16				
3.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
First-aid measures general	where	se of accident or if you feel unwell, seek is possible). Move the affected personnel	away from the o	contaminated area.
First-aid measures after inhalation	respir	ove person to fresh air and keep comfortation. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get med		
irst-aid measures after eye contact	prese	diately flush eyes thoroughly with water i nt and easy to do. Continue rinsing. Get	medical advice/	attention.
irst-aid measures after ingestion		OT induce vomiting. Never give anything n out with water. Get medical advice/atte		unconscious person. Rinse
.2. Most important symptoms and effective				
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section
Symptoms/injuries after inhalation	: May o	cause drowsiness or dizziness.		
I.3. Indication of any immediate medica	I attentio	n and special treatment needed		
Freat 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	oray. Use extinguishing media
.2. Special hazards arising from the su				
Fire hazard		nal decomposition generates: Carbon ox		
xplosion hazard	: Risk o conta	of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
.3. Advice for firefighters				
irefighting instructions	: In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sec		
ECTION 6: Accidental release mea	sures			
.1. Personal precautions, protective eq	uipment	and emergency procedures		
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				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.

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6.1.2. 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".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify au	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	ainment 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	ge
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, in	cluding 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: E>	posure controls/	personal	protection
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Control parameters 8.1.

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.

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
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 104 - 105 °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
Specific gravity / density	: 1.5855 g/ml (@ 25 °C)
Molecular mass	: 201.4 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	

9.2. Other information

Refractive index

: 1.392 (@ 25 °C)

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
No add	itional 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	itional information available	
10.4.	Conditions to avoid	
Keep av	way 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.

SECTION 11: Toxicological information			
11.1. Information on toxicological effects	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		
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.		

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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		
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No additional information available 12.4. Mobility in soil No additional information available	No addi	tional information available
12.4. Mobility in soil No additional information available	12.3.	Bioaccumulative potential
No additional information available	No addi	tional information available
	12.4.	Mobility in soil
12.5. Other adverse effects	No addi	tional information available
	12.5.	Other adverse effects

Other information

: Class II ozone-depleting substance.

SECTION 13: Disposal considerations		
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

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 except for:

	1,2,2-Trichloro-3,3,3-trifluoropropane	CAS No 7125-83-9	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

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SECTION 16: Other information

Revision date

: 05/31/2019

Full text of H-phrases:

Eye Irrit. 2ASerious eye damage/eye irritation Category 2/Ozone 1Hazardous to the ozone layer Category 1Skin Irrit. 2Skin corrosion/irritation Category 2STOT SE 3Specific target organ toxicity (single exposure)H315Causes skin irritationH319Causes serious eye irritationH335May cause respiratory irritation		
Skin Irrit. 2Skin corrosion/irritation Category 2STOT SE 3Specific target organ toxicity (single exposure)H315Causes skin irritationH319Causes serious eye irritation	2A	
STOT SE 3Specific target organ toxicity (single exposure)H315Causes skin irritationH319Causes serious eye irritation	Hazardous to the ozone layer Category 1	
H315 Causes skin irritation H319 Causes serious eye irritation	Skin corrosion/irritation Category 2	
H319 Causes serious eye irritation	Specific target organ toxicity (single exposure) Category 3	
	Causes skin irritation	
H335 May cause respiratory irritation		
H420 Harms public health and the environment by c upper atmosphere	destroying ozone in the	
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.	1	
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.		
HMIS III Rating		
Health : 1 Slight Hazard - Irritation or minor reversible injury possible		

Flammability

Physical

- : 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)
- : 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.