

Safety Data Sheet 1100747 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/03/2016 Version: 1.0

I.1. Identification	
Product form	: Substance
Substance name	: 4-Chloro-1,1,1-trifluorobutane
CAS No	: 406-85-9
Product code	: 1100-7-47
Formula	: C4H6CIF3
Synonyms	: 4,4,4-Trifluorobutyl chloride
Other means of identification	: MFCD02093299
1.2. Relevant identified uses of the	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 sa	fety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of Americ	ca
T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlab	s.com
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
Classification (CHS US)	
Classification (GHS-US)	
Flam. Liq. 3 H226 - Flammable liquid and	d vapour
Skin Irrit. 2 H315 - Causes skin irritation	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye	irritation
Skin Irrit. 2 H315 - Causes skin irritation	irritation
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirator	irritation
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2.3. Other hazards	lense P312 P321 P332 P337 P362 P370 P403 P403 P405	+P351+P338 - If in eyes: Rinse cautiousl s, if present and easy to do. Continue rin - Call a POISON CENTER or doctor/phy - Specific treatment (see supplemental f +P313 - If skin irritation occurs: Get medi +P313 - If eye irritation persists: Get medi +P364 - Take off contaminated clothing a +P378 - In case of fire: Use dry sand, dry +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	sing rsician if you fee irst aid instructio ical advice/atten dical advice/atten and wash it befo v chemical or alc Keep container Keep cool	l unwell ns on this label) tion ntion re reuse cohol-resistant foam to extinguish tightly closed
No additional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable				
	on in	arodionto		
SECTION 3: Composition/information 3.1. Substance	on in	greatents		
3.1. Substance Substance type	· Mono	-constituent		
	. 101010		0/	
Name 4-Chloro-1,1,1-trifluorobutane		Product identifier (CAS No) 406-85-9	% <= 100	Classification (GHS-US) Flam. Lig. 3, H226
(Main constituent)		(UN UNU) TUU UT UT UT UT UN	<u> </u>	Skin Irrit. 2, H226 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		· · · · · · · · · · · · · · · ·		
, and the second s	where	se of accident or if you feel unwell, seek n e possible). Move the affected personnel pove person to fresh air and keep comforta	away from the c	contaminated area.
		ation. Get medical advice/attention.		g
		with plenty of soap and water. Get medi		
	prese	diately flush eyes thoroughly with water t ant and easy to do. Continue rinsing. Get	medical advice/	attention.
First-aid measures after ingestion		OT induce vomiting. Never give anything n out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effects				
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical a	attentio	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 sub-	stance	or mixture		
Fire hazard		nal decomposition generates: Carbon ox		
Explosion hazard		of explosion if heated under confinement iners. May form flammable/explosive vap		ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions		se of fire: Evacuate area. Fight fire remot		
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sect		

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SECTION 6: Accidental release mease			
6.1. Personal precautions, protective equipment and emergency procedures			
	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.		
6.2. Environmental precautions			
Avoid release to the environment. Notify authoritie	s if product enters sewers or public waters.		
6.3. Methods and material for containment	t 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, including 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.		

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.

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SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and		
Physical state	: Liquid	
Color	No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: -67.25 °C	
Freezing point	: No data available	
Boiling point	: 86.6 °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	
Vapor pressure	: No data available	
Relative density	: No data available	
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 1.2425 g/ml (@ 20 °C)	
Molecular mass	: 146.54 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	: 1.3505 (@ 20 °C)	
SECTION 10: Stability and reactivit	y .	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and s	torage conditions.	
10.3. Possibility of hazardous reactions	s	
No additional information available		
10.4. Conditions to avoid		
	ratures exceeding 50 °C. Keep away from heat, sparks and flame.	
10.5. Incompatible materials		
-	a) Strong bases Strong ovidizing agents	
Alkali metals. Finely divided metals (Al, Mg, Zn). Strong bases. Strong oxidizing agents.		
10.6. Hazardous decomposition product Under normal conditions of storage and use, h fire, see Section 5.	exaction accomposition products should not be produced. Hazardous decomposition products in case of	
SECTION 11: Toxicological information	ation	
11.1. Information on toxicological effect		
Acute toxicity	: Not classified	
	· Causes skin irritation	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	

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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			
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			

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 Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1993 Flammable liquids, n.o.s., 3, III

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



: III - Minor Danger

: 203

: 242

: G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. 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). T4 - 2.65 178.274(d)(2) Normal
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.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
All components of this product are listed or exc	luded from listing, on the United States Environmental Protection Agency Toxic

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:

4-Chloro-1,1,1-trifluorobutane	CAS No 406-85-9	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

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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:

i un tez	a or ri-prilases.			
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A		
	Flam. Liq. 3	Flammable liquids Category 3		
	Skin Irrit. 2	Skin corrosion/irritation Category 2		
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
	H226	Flammable liquid and vapor		
	H315	Causes skin irritation		
	H319	Causes serious eye irritation		
	H335	May cause respiratory irritation		
	health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.		
NFPA fire hazard		: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.		
NFPA	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.		
HMIS I	II Rating			
Health		: 2 Moderate Hazard - Temporary or minor injury may occur		
		 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 		
Physic	al	: 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.