

05/29/2020

# Trichlorofluoromethane

Safety Data Sheet 1100603H according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/03/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Trichlorofluoromethane
CAS No	: 75-69-4
Product code	: 1100-6-03H
Formula	: CCI3F
Synonyms	: Fluorotrichloromethane; CFC-11; Freon 11
Other means of identification	: MFCD00000784
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	y 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@synquestlabs.com - www.synquestlabs.c	<u>xom</u>
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	
Classification (GHS-US)	
Acute Tox. 4 (Dermal) H312 - Harmful in co	ontact with skin
	c health and the environment by destroying ozone in the upper atmosphere
Full text of H-phrases: see section 16	c health and the environment by destroying ozone in the upper atmosphere
Full text of H-phrases: see section 16	c health and the environment by destroying ozone in the upper atmosphere
Full text of H-phrases: see section 16      2.2.      Label elements	c health and the environment by destroying ozone in the upper atmosphere
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Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	: GHS07
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	: GHS07 : Warning : H312 - Harmful in contact with skin
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Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning : H312 - Harmful in contact with skin H420 - Harms public health and the environment by destroying ozone in the upper atmosphere : P280 - Wear protective gloves/protective clothing/eye protection/face protection
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>Warning</li> <li>H312 - Harmful in contact with skin H420 - Harms public health and the environment by destroying ozone in the upper atmosphere</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> </ul>
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>Warning</li> <li>H312 - Harmful in contact with skin H420 - Harms public health and the environment by destroying ozone in the upper atmosphere</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label)</li> </ul>
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	<ul> <li>Warning</li> <li>H312 - Harmful in contact with skin H420 - Harms public health and the environment by destroying ozone in the upper atmosphere</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse</li> </ul>
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Name	Product	identifier	%	Classification (GHS-US)
Trichlorofluoromethane (Main constituent)	(CAS No) 7	5-69-4	<= 100	Acute Tox. 4 (Dermal), H312 Ozone 1, H420
Full text of H-phrases: see section 16				020110 1, 11420
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: In case of accid			ce immediately (show the label he contaminated area.
First-aid measures after inhalation		to fresh air and keep of immediate medical ad		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plent	y of soap and water.	et immediate medic	al advice/attention.
First-aid measures after eye contact				e rinsing. Immediately flush eyes te medical advice/attention.
First-aid measures after ingestion		mouth to an unconsci		kely. Do NOT induce vomiting. Neve nouth out with water. Get immediate
4.2. Most important symptoms and e	ffects, both acute and	delayed		
Symptoms/injuries	: The most import 2.2) and/or in se		and effects are desc	ribed in the labelling (see section
Symptoms/injuries after inhalation	: May cause drow	siness or dizziness.		
4.3. Indication of any immediate med	ical attention and spe	cial treatment neede	d	
No additional information available				
SECTION 5: Firefighting measure	s			
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistan	t foam. Carbon dioxide	. Drv powder. Wate	r spray. Use extinguishing media
	appropriate for s			· · · · · · · · · · · · · · · · ·
5.2. Special hazards arising from the	substance or mixture			
Fire hazard	: Thermal decom	position generates: Ca	rbon oxides. Hydrog	jen chloride. Hydrogen fluoride.
Explosion hazard	: Contains gas ur exposed contair		blode if heated. Use	water spray or fog for cooling
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: E	vacuate area. Fight fir	e remotely due to th	e risk of explosion.
Protection during firefighting				on with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective		gency procedures		
General measures	: Evacuate unneo	essary personnel. Ens		ntilation. May cause suffocation by as, fumes, vapor or spray.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only qualified pe	ersonnel equipped with	suitable protective	equipment may intervene.
6.1.2. For emergency responders				
6.1.2. For emergency responders Protective equipment	: Do not attempt t	o take action without s	uitable protective ec	uipment. For further information
		B: "Exposure controls/p		
Emergency procedures				paces, particularly at or below ground
6.2. Environmental precautions				
Avoid release to the environment. Notify auth	orities if product enters	sewers or public wate	rs.	
6.3. Methods and material for contain	ment and cleaning up	)		
For containment	: Stop leak if safe			
Methods for cleaning up	: Ventilate area.			
Other information	: For disposal of	solid materials or resid	ues refer to section	13 : "Disposal considerations".
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#### 6.4. **Reference to other sections** No additional information available **SECTION 7: Handling and storage** Precautions for safe handling 7.1. : Pressurized container: Do not pierce or burn, even after use. Close valve after each use and Additional hazards when processed when empty. : Do not handle until all safety precautions have been read and understood. Ensure good Precautions for safe handling ventilation of the work station. Do not breathe fumes, gas, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Safe handling of the gas receptacle : Securely chain cylinders when in use and protect against physical damage. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or Hygiene measures 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	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. 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: Exposure controls/personal protection**

8.1. Control parameters			
Trichlorofluoromethane (75-69-4)			
ACGIH	ACGIH Ceiling (ppm)	1000 ppm	
ACGIH	Remark (ACGIH)	Card sens	
OSHA	OSHA PEL (TWA) (mg/m³)	5600 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	

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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating gases may be released. Gas detectors should be used when toxic gases may be released.
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.
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 p	ohysical and chemical properties		
Physical state	: Liquid		
Appearance	: Clear, colorless liquid or gas a (74.7 °F).	t ambient temperatures. Liquid at temperatures	below 23.7 °C
Color	: Clear Colorless		
Odor	: odorless slight Sweet ether-lik	e	
Odor threshold	: No data available		
рН	: No data available		
Melting point	: -111 °C		
Freezing point	: No data available		
Boiling point	: 23.8 °C		
Critical temperature	: 198 °C		
Critical pressure	: 639.3 psia		
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5 5 7	
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: 63
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 664.3 mm Hg (@ 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.494 g/ml (@ 25 °C)
Molecular mass	: 137.67 g/mol
Solubility	: Water: 1.3 g/l (at 20 °C)
Log Pow	: 2.5 (at 25 °C)
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	: 1.3821 (@ 20 °C)

	<b>SECTION 10:</b>	Stability and	l reactivity
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#### 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

Finely divided metals (Al, Mg, Zn). Potassium. Sodium. 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

Acute toxicity

#### : Dermal: Harmful in contact with skin.

Trichlorofluoromethane (75-69-4)		
LD50 oral rat	> 15000 mg/kg	
LC50 inhalation rat (ppm)	26200 ppm/4h	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases)	26200.000 ppmV/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.

SECTION 12: Ecological information	
12.1. Toxicity	
Trichlorofluoromethane (75-69-4)	
EC50 Daphnia 1	130 mg/l (Exposure time: 48 h - Species: Daphnia magna)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Trichlorofluoromethane (75-69-4)	
Log Pow	2.5 (at 25 °C)
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information :	Class I - Group I ozone-depleting substance.
<b>SECTION 13: Disposal considerations</b>	
13.1. Waste treatment methods	
Regional legislation (waste) :	U.S RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII. U.S RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring. U.S RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents. U.S RCRA (Resource Conservation & Recovery Act) - Part 268 Appendix III - Halogenated Organic Compounds (HOCs). U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring. U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics.

	: Remove to an authorized incinerator	equipped with an afterburner	and a flue gas scrubber.
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- : 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**

Waste treatment methods

Waste disposal recommendations

Department of Transportation (DOT)	
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
UN-No.(DOT)	: UN3082
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.
Transport hazard class(es) (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)

Packing group (DOT)
DOT Packaging Non Bulk (49 CFR 173.xxx)
DOT Packaging Bulk (49 CFR 173.xxx)
DOT Symbols

: 241

: 203

: III - Minor Danger

: G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</li> <li>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.</li> <li>173 - An appropriate generic entry may be used for this material.</li> <li>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s." UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 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>T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Deckering Exceptions (40 CEP 172 yyy)	MAWP. : 155
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
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	
JN-No. (IMDG)	
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG)	: 9 - Miscellaneous dangerous compounds
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
JN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
5.1. US Federal regulations	
Trichlorofluoromethane (75-69-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %
All components of this product are listed, or exc Substances Control Act (TSCA) inventory	luded from listing, on the United States Environmental Protection Agency Toxic
	to a fill on a fill and the Dense from the sector of Densetters and Densetters Act (DADA) of

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Trichlorofluoromethane	CAS No 75-69-4	100%

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15.2. International regulations		
CANADA		
Trichlorofluoromethane (75-69-4)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

#### **EU-Regulations**

No additional information available

#### National regulations

#### Trichlorofluoromethane (75-69-4)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3. US State regulations	
Trichlorofluoromethane (75-69-4)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List

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:

.0/		
	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Ozone 1	Hazardous to the ozone layer Category 1
	H312	Harmful in contact with skin
	H420	Harms public health and the environment by destroying ozone in the upper atmosphere

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 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.