

Safety Data Sheet 1100301 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/02/2016 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Fluoromethane
CAS No	: 593-53-3
Product code	: 1100-3-01
Formula	: CH3F
Synonyms	: Methyl fluoride
Other means of identification	: MFCD00039282
	substance or mixture and uses advised against
Use of the substance/mixture	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	e or mixture
Classification (GHS-US)	
Flam. Gas 1 H220 - Extremely flamma Liquefied gas H280 - Contains gas unde Skin Irrit. 2 H315 - Causes skin irritat	er pressure; may explode if heated ion
Flam. Gas 1H220 - Extremely flammaLiquefied gasH280 - Contains gas underSkin Irrit. 2H315 - Causes skin irritatEye Irrit. 2AH319 - Causes serious eySTOT SE 3H335 - May cause respire	ble gas er pressure; may explode if heated tion ye irritation
Flam. Gas 1H220 - Extremely flammaLiquefied gasH280 - Contains gas underSkin Irrit. 2H315 - Causes skin irritatEye Irrit. 2AH319 - Causes serious eySTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	ble gas er pressure; may explode if heated tion ye irritation
Flam. Gas 1       H220 - Extremely flamma         Liquefied gas       H280 - Contains gas under Skin Irrit. 2         Skin Irrit. 2       H315 - Causes skin irritat         Eye Irrit. 2A       H319 - Causes serious ey         STOT SE 3       H335 - May cause respirat         Full text of H-phrases: see section 16         2.2.       Label elements	ble gas er pressure; may explode if heated tion ye irritation
Flam. Gas 1       H220 - Extremely flamma         Liquefied gas       H280 - Contains gas under Skin Irrit. 2         Skin Irrit. 2       H315 - Causes skin irritat         Eye Irrit. 2A       H319 - Causes serious exponence         STOT SE 3       H335 - May cause respirat         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	ble gas er pressure; may explode if heated tion ye irritation
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	<ul> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely</li> <li>P381 - Eliminate all ignition sources if safe to do so</li> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P410+P403 - Protect from sunlight. Store in a well-ventilated place</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>			ttention attention before reuse b be stopped safely her tightly closed ed place		
2.3. Other hazards Other hazards not contributing to the classification		use may form flammable/explosive eated under confinement.	e vapor-air mixture. Ma	ay cause frostbite. Risk of explosion		
2.4. Unknown acute toxicity (GHS L	JS)					
Not applicable						
SECTION 3: Composition/inform	ation on i	ingredients				
3.1. Substance						
Substance type	: Mo	no-constituent				
Name		Product identifier	%	Classification (GHS-US)		
Fluoromethane (Main constituent)		(CAS No) 593-53-3	<= 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	whe	case of accident or if you feel unw ere possible). Move the affected p	personnel away from the	ne contaminated area.		
First-aid measures after inhalation		move person to fresh air and keep piration. Get immediate medical a	advice/attention.	thing. If not breathing, give artificial		
First aid massures offer skin contact	· The	w freeted parts with lukewarm w	<ul> <li>Thaw frosted parts with lukewarm water. Do no rub affected area. Get immediate medical advice/attention.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush eyes</li> </ul>			
	adv	vice/attention.				
	adv : Rer	vice/attention.	nd easy to do. Continu	e rinsing. Immediately flush eyes		
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Explosion hazard	: Contains gas under pressure; may explode if heated. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.
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 release m</b>	easures
6.1. Personal precautions, protective	e 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 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 authorities if product enters sewers or public waters.

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

No additional information available

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, ir	cluding 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.

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8.1.
        Control parameters
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No additional information available

8.2.	Exposure controls			
Approp	oriate 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.	ms under
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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
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9.1. Information on basic physical and chemical properties		
Physical state	: Gas	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: -114.8 °C	
Freezing point	: No data available	
Boiling point	: -78.5 °C	
Critical temperature	: 97 °C	
Critical pressure	: 44.6 psia	
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	: 552 psia (@ 21 °C)	
Relative density	: No data available	
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 0.8817 g/ml (@ -78.5 °C)	
Molecular mass	: 34.03 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	: 1.1674 (@ 25 °C)	

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
Strong oxidizing agents.

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### 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.

SECT	<b>FION 11: Toxicological information</b>		
11.1.	Information on toxicological effects		

Acute toxicity	: Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	<ul> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	<ul> <li>Not classified</li> <li>May cause respiratory irritation.</li> <li>Not classified</li> </ul>
exposure) Aspiration hazard	: Not classified
Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	<ul> <li>May cause drowsiness or dizziness.</li> <li>Contact with the liquid the may cause cold burns/frostbite.</li> <li>Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.</li> </ul>

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects
No addit	ional information available

<b>SECTION 13: Disposal consideration</b>	ons
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	n
Department of Transportation (DOT)	
In accordance with DOT	

Transport document description	: UN2454 Methyl fluoride, 2.1
UN-No.(DOT) Proper Shipping Name (DOT)	: UN2454 : Methyl fluoride
Transport hazard class(es) (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

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Hazard labels (DOT)	: 2.1 - Flammable gas
	2
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 304
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
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	: E - The material may be stowed "on deck" or "under deck" 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 is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 115
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2454
Proper Shipping Name (IMDG)	: METHYL FLUORIDE (REFRIGERANT GAS R 41)
Class (IMDG)	: 2 - Gases
Air transport	
UN-No. (IATA)	: 2454
Proper Shipping Name (IATA)	: Methyl fluoride
Class (IATA)	: 2
<b>SECTION 15: Regulatory information</b>	
15.1. US Federal regulations	

Fluoromethane (593-53-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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 Fluoromethane (593-53-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)	
WHMIS Classification	Class A - Compressed Gas

### **EU-Regulations**

No additional information available

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

### National regulations

Fluoromethane (593-53-3) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3. US State regulations	
Fluoromethane (593-53-3)	
State or local regulations	U.S New Jersey - Right to Know Hazardous Substance 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**

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 reactivity	<ul> <li>and temperature, or is readily dispersed in air and will burn readily.</li> <li>3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with water.</li> </ul>
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 bell 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA
Physical	: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capabl detonation or explosive reaction in the presence of a strong initiating source. Materials

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.