

**1,1-Difluoroethane** Safety Data Sheet 1100305 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/03/2015 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1,1-Difluoroethane		
CAS No	: 75-37-6		
Product code	: 1100-3-05		
Formula	: C2H4F2		
Other means of identification	: MFCD00000449		
1.2. Relevant identified uses of the subs	tance or mixture and uses advised agains	st	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances Scientific research and development		
1.3. Details of the supplier of the safety of	lata sheet		
SynQuest Laboratories, Inc. P.O. Box 309			
Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs.com	1		
1.4. Emergency telephone number	-		
Emergency number	: (844) 523-4086 (3E Company - Account	10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or m	ixture		
Classification (GHS-US)			
Simple Asphy H380 - May displace oxygen ar	nd cause rapid suffocation		
Flam. Gas 1 H220 - Extremely flammable ga			
Liquefied gas H280 - Contains gas under pre	ssure; may explode if heated		
Full text of H-phrases: see section 16			
2.2 Label elements			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS02 GHS04		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	<ul> <li>H220 - Extremely flammable gas</li> <li>H280 - Contains gas under pressure; ma</li> <li>H380 - May displace oxygen and cause</li> </ul>		
Precautionary statements (GHS-US)	: P210 - Keep away from heat/sparks/ope P377 - Leaking gas fire: Do not extinguis P381 - Eliminate all ignition sources if sa P403 - Store in a well-ventilated place P410+P403 - Protect from sunlight. Store	sh, unless leak can be stopped safely ife to do so	
2.3. Other hazards			
Other hazards not contributing to the classification	: May cause frostbite.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
<b>SECTION 3: Composition/information</b>	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		

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Name	Product identifier	%	Classification (GHS-US)
1,1-Difluoroethane (Main constituent)	(CAS No) 75-37-6	<= 100	Simple Asphy, H380 Flam. Gas 1, H220 Liquefied gas, H280
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
I.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel unwell, seek where possible). Move the affected personne		
First-aid measures after inhalation	: Remove person to fresh air and keep comfort respiration. Get immediate medical advice/att		ng. If not breathing, give artificial
First-aid measures after skin contact	: Thaw frosted parts with lukewarm water. Do r advice/attention.	no rub affected a	rea. Get immediate medical
First-aid measures after eye contact	: Remove contact lenses, if present and easy t thoroughly with water for at least 15 minutes.		
First-aid measures after ingestion	<ul> <li>Due to its physical form, exposure to this che give anything by mouth to an unconscious pe advice/attention.</li> </ul>		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries	The most important known symptoms and eff 2.2) and/or in section 11.	ects are describ	ed in the labelling (see section
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.		
	Contact with the liquid the may cause cold burns/frostbite.		
Symptoms/injuries after eye contact	: Direct contact with the liquefied gas may caus to frostbite from rapid liquid evaporation.	se severe and p	ossibly permanent eye injury due
	and the second		
4.3. Indication of any immediate medical a	attention and special treatment needed		
	attention and special treatment needed		
No additional information available	attention and special treatment needed		
No additional information available SECTION 5: Firefighting measures	attention and special treatment needed		
No additional information available SECTION 5: Firefighting measures 5.1. Extinguishing media	Alcohol resistant foam. Carbon dioxide. Dry p     appropriate for surrounding fire.	owder. Water sj	oray. Use extinguishing media
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Avoid release to the environment. Notify authorities if product enters sewers or public waters.

12/06/2016

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6.3. Methods and material for containment and cleaning up			
For containment	: Stop leak if safe to do so.		
Methods for cleaning up	: 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	: 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, including	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.		

## **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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating 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.
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# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	I chemical properties
Physical state	: Gas
Appearance	: Colorless gas.
Color	: Colorless
Odor	: odorless
Odor threshold	: No data available
рН	: No data available
Melting point	: -117 °C
Freezing point	: No data available
Boiling point	: -24.7 °C
Flash point	: < -50 °C (open cup)
Relative evaporation rate (butyl acetate=1)	: No data available

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5	<b>3</b> , , ,
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 77.7 psia (@ 21 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.966 g/ml (@ 19 °C)
Molecular mass	: 66.05 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

### 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.

# **SECTION 11: Toxicological information**

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>Not classified</li> <li>Not classified</li> <li>Not classified</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 exposure)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
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>

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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No addi	itional information available

<b>SECTION 13: Disposal consider</b>	ations
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.
<b>SECTION 14: Transport informa</b>	tion
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1030 1,1-Difluoroethane, 2.1
UN-No.(DOT)	: UN1030
Proper Shipping Name (DOT)	: 1,1-Difluoroethane
Transport hazard class(es) (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)	: 2.1 - Flammable gas

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: 304

: 115

: 314;315

: 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.

: B - (i) 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

DOT Packaging Exceptions (49 CFR 173.xxx) : 306 DOT Quantity Limitations Passenger aircraft/rail : Forbidden (49 CFR 173.27)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

DOT Packaging Bulk (49 CFR 173.xxx)

- DOT Quantity Limitations Cargo aircraft only (49 : 150 kg CFR 175.75)
- DOT Vessel Stowage Location
- DOT Vessel Stowage Other
- Emergency Response Guide (ERG) Number
- Other information

: No supplementary information available.

section is exceeded.

: 40 - Stow "clear of living quarters"

## TDG

No additional information available

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Transport by sea	
UN-No. (IMDG)	: 1030
Proper Shipping Name (IMDG)	: 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)
Class (IMDG)	: 2 - Gases
Air transport	
Air transport	
Air transport UN-No. (IATA)	: 1030
	: 1030 : 1,1-Difluoroethane

SECTION 15: Regulatory information
15.1. US Federal regulations
1,1-Difluoroethane (75-37-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

CANADA				
1,1-Difluoroethane (75-37-6)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas			

EU-Regulations No additional information available

### National regulations

1,1-Difluoroethane (75-37-6)
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)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

15.3. US State regulations		
1,1-Difluoroethane (75-37-6)	ifluoroethane (75-37-6)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List	

## **SECTION 16: Other information**

Full text of H-phrases:

	Flam. Gas 1		Flammable gases Category 1
	Liquefied gas		Gases under pressure Liquefied gas
	Simple Asphy		Simple Asphyxiant
	H220		Extremely flammable gas
	H280		Contains gas under pressure; may explode if heated
	H380		May displace oxygen and cause rapid suffocation
			exposure could cause temporary
		incapacitation or possibl	le residual injury unless prompt
NFPA f	ire hazard	incapacitation or possibl medical attention is give : 4 - Will rapidly or comple	le residual injury unless prompt

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HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
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	: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion

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.