

Safety Data Sheet 6H70600 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/17/2020 Version: 1.0

SECTION 4. Identification	
SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1,2-Dichloro-1,2-difluoroethanesultone
CAS No	: 2268-24-8
Product code	: 6H70-6-00
Formula	: C2Cl2F2O3S
Synonyms	: 3,4-Dichloro-3,4-difluoro-1,2-oxathietane 2,2-dioxide; 1,2-Dichloro-1,2-difluoro-2- hydroxyethanesulfonic acid beta-sultone
Other means of identification	: MFCD31560918
	tance 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 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	l
1.4. Emergency telephone number	<u>-</u>
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)	
Acute Tox. 4 (Oral) H302 - Harmful if swallow	ed
Skin Corr. 1B H314 - Causes severe ski	
Eye Dam. 1 H318 - Causes serious ey	e damage
STOT SE 3 H335 - May cause respira	
STOT SE 3 H335 - May cause respira Full text of H-phrases: see section 16	
STOT SE 3H335 - May cause respiraFull text of H-phrases: see section 162.2.Label elements	
STOT SE 3       H335 - May cause respiration         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	
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STOT SE 3H335 - May cause respiratFull text of H-phrases: see section 162.2.Label elementsGHS-US labelingHazard pictograms (GHS-US)	
STOT SE 3       H335 - May cause respirat         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)	tory irritation :
STOT SE 3H335 - May cause respiratFull text of H-phrases: see section 162.2.Label elementsGHS-US labelingHazard pictograms (GHS-US)	tory irritation :
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STOT SE 3       H335 - May cause respirat         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>tory irritation</li> <li>: is a constraint of the second second</li></ul>
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	P363 - P403+ P405 -	Rinse mouth Wash contaminated clothing P233 - Store in a well-ventilate Store locked up Dispose of contents/containe	ed place. Keep containe	
2.3. Other hazards				
Other hazards not contributing to the classification	: Lachry	rmator.		
2.4. Unknown acute toxicity (GHS US	)			
Not applicable				
<b>SECTION 3: Composition/informa</b>	tion on ing	jredients		
3.1. Substance				
Substance type	: Mono-	constituent		
Name		Product identifier	%	Classification (GHS-US)
1,2-Dichloro-1,2-difluoroethanesultone (Main constituent)		(CAS No) 2268-24-8	<= 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 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		f	all a sala as a first a daile	- Second States (also with a labor)
First-aid measures general	where	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.		
First-aid measures after inhalation		Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. al advice/attention.	Remove contaminated	clothing and shoes. Get immediate
First-aid measures after eye contact		Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion		Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and e	fects, both a	cute and delayed		
Symptoms/injuries		ost important known symptom nd/or in section 11.	s and effects are descri	ibed in the labelling (see section
Symptoms/injuries after inhalation		Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		
4.3. Indication of any immediate med	ical attention	and special treatment need	ed	
Treat symptomatically.				
SECTION 5: Firefighting measures	S			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxio	de. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the	substance o	r mixture		
Fire hazard		al decomposition generates: C oxides.	Carbon oxides. Hydroge	en chloride. Hydrogen fluoride.
Explosion hazard	: Risk o contair	•	nfinement. Use water sp	bray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In case	e of fire: Evacuate area. Fight	fire remotely due to the	risk of explosion.
Protection during firefighting	: Wear g	gas tight chemically protective	clothing in combination	

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6.1. Personal precautions, protective equipment and emergency procedures         General measures       : 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.         6.2. Environmental precautions       I stock environment. Notify authorities if product enters sewers or public waters.         6.3. Methods and material for containment and cleaning up       I 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'.         No additional information available       : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do no toreath fundings, stray, vapors. Wear personal protective equipment.	SECTION 6: Accidental release measures			
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.         6.2. Environmental precautions       Avoid release to the environment. Notify authorities if product enters sewers or public waters.         6.3. Methods and material for containment and cleaning up       For containment         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. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. See por shovel spills into appropriate 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       Do not handle until all safety precautions have been	6.1. Personal precautions, protective equ	ipment and emergency procedures		
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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 temperature       : 2 - 8 °C Use explosion proof refrigerator	Precautions for safe handling	ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal		
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 temperature: 2 - 8 °C Use explosion proof refrigerator	Hygiene measures			
Storage conditions: Keep container closed when not in use.Incompatible materials: Refer to Section 10 on Incompatible Materials.Storage temperature: 2 - 8 °C Use explosion proof refrigerator	7.2. Conditions for safe storage, including	g any incompatibilities		
Incompatible materials: Refer to Section 10 on Incompatible Materials.Storage temperature: 2 - 8 °C Use explosion proof refrigerator	Technical measures	: Comply with applicable regulations.		
Storage temperature : 2 - 8 °C Use explosion proof refrigerator	Storage conditions	: Keep container closed when not in use.		
	Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area : Store in dry, well-ventilated area.	Storage temperature	: 2 - 8 °C Use explosion proof refrigerator		
	Storage area	: Store in dry, 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.
<b>SECTION 9: Physical and chem</b>	nical properties
2.4 Information on basis abusised and abamical momenties	

9.1.	Information on basic physical and chemical properties			
Physica	l state	: Liquid		
Color		: No data available		
Odor		: No data available		
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	,,
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 109 - 111 °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
Molecular mass	: 212.987 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
Keep away from heat, sparks and flame.
10.5. Incompatible materials
Strong acids. 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	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
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.

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTIO	ON 12: Ecological information
12.1.	Toxicity
No additi	ional information available
12.2.	Persistence and degradability
No additi	ional information available
12.3.	Bioaccumulative potential
No additi	ional information available
12.4.	Mobility in soil
No additi	ional 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

DOT Special Provisions (49 CFR 172.102)

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136

: 8 - Corrosive



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

: 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).

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

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	-
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 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.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

### 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

- Substances Solution Act (1984) inventory exception.			
	1,2-Dichloro-1,2-difluoroethanesultone	CAS No 2268-24-8	100%

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

### **SECTION 16: Other information**

#### Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

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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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
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.