

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 1300KZ0 Issue date: 1/15/2019 Version: 1.1

SECTION 1: Identification		
1.1. Identification		
Product form Substance name CAS-No. Product code Formula Other means of identification	: Substance : (Z)-1,2-Difluoro-1-iodoethene : 122652-71-5 : 1300-K-Z0 : C2HF2I : MFCD30062794	
1.2. Recommended use and restrictions or	se	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Supplier		
SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com		
1.4. Emergency telephone number		
Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mix	: (844) 523-4086 (3E Company - Account 10	
GHS US classification		
Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Specific target organ toxicity – Single exposure, Ca Respiratory tract irritation Full text of H statements : see section 16		
2.2. GHS Label elements, including precau	onary statements	
GHS US labeling Hazard pictograms (GHS US)		
Signal word (GHS US) Hazard statements (GHS US)	: Warning : H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation	

H335 - May cause respiratory irritation

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	<ul> <li>P261 - Avoid breathing fumes, mist, spray, vapors.</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P330 - Rinse mouth.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>
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### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

### SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
(Z)-1,2-Difluoro-1-iodoethene (Main constituent)	CAS-No.: 122652-71- 5	≤ 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

### **SECTION 4: First-aid measures**

4.1. Description of first aid measures

First-aid measures general	: 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 medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
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 medical advice/attention.

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First-aid measures after ingestion :	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effects (a	cute and delayed)
Symptoms/effects :	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.3. Immediate medical attention and special	treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing i	nedia
Suitable extinguishing media	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Specific hazards arising from the chemic	cal
Fire hazard Explosion hazard	<ul> <li>Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Hydrogen iodide.</li> <li>Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.</li> </ul>
5.3. Special protective equipment and precau	utions for fire-fighters
Firefighting instructions Protection during firefighting	<ul> <li>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>

SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective ed	quipment 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.

**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 Methods for cleaning up	<ul> <li>Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.</li> <li>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.</li> </ul>	
Other information	: For disposal of solid materials or residues 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		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul> <li>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.</li> <li>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.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		
Technical measures Storage conditions Incompatible materials Storage temperature Storage area	<ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use.</li> <li>Refer to Section 10 on Incompatible Materials.</li> <li>2 - 8 °C</li> <li>Store in dry, well-ventilated area. Light sensitive.</li> </ul>	

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

(Z)-1,2-Difluoro-1-iodoethene (122652-71-5	)
No additional information available	
8.2. Appropriate engineering 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 pressur 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	

Personal protective equipment symbol(s):



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### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liguid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 44 – 46 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Molecular mass	: 189.9306 g/mol
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	

### 9.2. Other information

Refractive index

: (@ 20 °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 Keep away from heat, sparks and flame. 10.5. Incompatible materials

Alkali metals. Finely divided metals (Al, Mg, Zn). Strong bases. 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.

SECTION 11: Toxicological inform	nation
11.1. Information on toxicological effe	ects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified
(Z)-1,2-Difluoro-1-iodoethene (122652	2-71-5)
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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. Disposal methods		
Waste treatment methods Product/Packaging disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul>	

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SECTION 14: Transport information		
14.1. UN number		
Not regulated for transport		
14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.3. Transport hazard class(es)		
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable	
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable	
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
IATA Transport hazard class(es) (IATA)	: Not applicable	
14.4. Packing group		
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT No data available		
TDG No data available		
IMDG No data available		
IATA No data available		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable		

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SECTION 15: Regulatory information				
15.1. US Federal regulations				
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:				
(Z)-1,2-Difluoro-1-iodoethene	CAS-No. 122652-71-5	100%		
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, developmental and/or reproductive harm

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

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Full text of H-phr	ases		
H302	Harmful if swallowed		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H335	May cause respiratory irritation		
NFPA health hazar NFPA fire hazard NFPA reactivity	d	<ul> <li>3 - Materials that, under emergency conditions, can cause serious or permanent injury.</li> <li>1 - Materials that must be preheated before ignition can occur.</li> <li>1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.</li> </ul>	
Hazard Rating Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability		<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>	
Physical		<ul> <li>1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.</li> </ul>	
Safety Data Sheet	(SDS), USA		

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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.