

Safety Data Sheet 5371302 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/28/2016 Version: 1.0

SECTION 1: Identification	
I.1. Identification	
Product form	: Substance
Substance name	: Vinylsulfur pentafluoride
CAS No	: 865-54-3
Product code	: 5371-3-02
ormula	: C2H3F5S
Synonyms	: Pentafluoro(vinyl)sulfur; Ethenylsulfur pentafluoride
Other means of identification	: MFCD01682924
.2. Relevant identified uses of the s	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ F (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs	
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation	)
	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation
Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye is         STOT SE 3       H335 - May cause respirator         Full text of H-phrases: see section 16         2.2.       Label elements         SHS-US labeling	irritation ry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation ry irritation
Skin Irrit. 2       H315 - Causes skin irritation         Eye Irrit. 2A       H319 - Causes serious eye is         STOT SE 3       H335 - May cause respirator         Full text of H-phrases: see section 16         2.2.       Label elements	irritation ry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 <b>2.2. Label elements</b> <b>GHS-US labeling</b> Hazard pictograms (GHS-US)	irritation ry irritation : GHSO7 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS U	JS)			
Not applicable				
SECTION 3: Composition/inform	ation on in	aredients		
3.1. Substance				
Substance type	: Mond	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Vinylsulfur pentafluoride		(CAS No) 865-54-3	<= 100	Skin Irrit. 2, H315
(Main constituent)				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		se of accident or if you feel unwell, s	eek medical advice	immediately (show the label
nisi-aiu illeasules yelleläi		e possible). Move the affected perso		
First-aid measures after inhalation		ove person to fresh air and keep con ration. Get immediate medical advic		ng. If not breathing, give artificial
First-aid measures after skin contact		n with plenty of soap and water. Get		
First-aid measures after eye contact		ediately flush eyes thoroughly with went and easy to do. Continue rinsing		
First-aid measures after ingestion		OT induce vomiting. Never give any h out with water. Get immediate me		
4.0 Montinenentent comptementen				
4.2. Most important symptoms and	effects, both	acute and delayed		
4.2. Most important symptoms and Symptoms/injuries	: The r	acute and delayed nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
Symptoms/injuries	: The r 2.2) a	nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
Symptoms/injuries	: The r 2.2) a	nost important known symptoms an	d effects are describ	ed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate me Treat symptomatically.	: The r 2.2) a edical attentio	nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
Symptoms/injuries 4.3. Indication of any immediate me Treat symptomatically. SECTION 5: Firefighting measure	: The r 2.2) a edical attentio	nost important known symptoms an and/or in section 11.	d effects are describ	ed in the labelling (see section
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Symptoms/injuries 4.3. Indication of any immediate me Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media	: The r 2.2) a edical attentio es : Alcoh appro	nost important known symptoms an and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxide. I opriate for surrounding fire.		
Symptoms/injuries         4.3.       Indication of any immediate me         Treat symptomatically.         SECTION 5: Firefighting measure         5.1.       Extinguishing media         Suitable extinguishing media	: The r 2.2) a edical attentio es : Alcoh appro-	nost important known symptoms an and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxide. I opriate for surrounding fire.	Dry powder. Water s	pray. Use extinguishing media
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Symptoms/injuries         4.3.       Indication of any immediate me         Treat symptomatically.         SECTION 5: Firefighting measure         5.1.       Extinguishing media         Suitable extinguishing media         5.2.       Special hazards arising from th         Fire hazard	: The r 2.2) a edical attentio es : Alcoh appro ne substance o : Therr : Risk o	nost important known symptoms an and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxide. I opriate for surrounding fire. or mixture mal decomposition generates: Carbo of explosion if heated under confine	Dry powder. Water s on oxides. Hydroger	pray. Use extinguishing media a fluoride. Sulfur oxides.
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Symptoms/injuries         4.3.       Indication of any immediate meta         Treat symptomatically.         SECTION 5: Firefighting measure         5.1.       Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         5.2.       Special hazards arising from the         Fire hazard         Explosion hazard         5.3.       Advice for firefighters         Firefighting instructions         Protection during firefighting         SECTION 6: Accidental release refighting         6.1.       Personal precautions, protective         General measures         6.1.1.       For non-emergency personnel         Emergency procedures         6.1.2.       For emergency responders	: The r 2.2) a edical attentio es : Alcoh appro ne substance d : Therr : Risk d conta : In cas : Wear appai measures ve equipment : Evaci vapor : Only : Do no refer	nost important known symptoms an and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxide. If opriate for surrounding fire. In and ecomposition generates: Carbon of explosion if heated under confine iners. Is e of fire: Evacuate area. Fight fire if gas tight chemically protective clot ratus. For further information refer to and emergency procedures uate unnecessary personnel. Ensur r or spray. qualified personnel equipped with s bot attempt to take action without suit to section 8: "Exposure controls/per vapor heavier than air. May accumu	Dry powder. Water s on oxides. Hydroger ment. Use water spi emotely due to the r ning in combination o section 8: "Exposu e adequate air ventil uitable protective equi sonal protective equi	pray. Use extinguishing media a fluoride. Sulfur oxides. ray or fog for cooling exposed isk of explosion. with self contained breathing re controls/personal protection". lation. Do not breathe gas, fumes, uipment may intervene. pment. For further information

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6.2. Environmental precaut	tions
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	: 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".
6.4. Reference to other sec	tions
No additional information available	
SECTION 7: Handling and	l storage
7.1. Precautions for safe ha	
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, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
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 sto	prage, including any incompatibilities
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 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.
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.

### **SECTION 9: Physical and chemical properties**

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Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: No data available		
Boiling point	: 43 °C		
Freezing point	: No data available		
Melting point	: No data available		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Physical state	: Liquid		
9.1. Information on basic physical and			

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Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Molecular mass	:	154.10 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	SECTI	ON 10: \$	Stability and	d 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

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	: 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
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

<b>SECTION 13: Disposal consideration</b>	S
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	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <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>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 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.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
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:

Vinylsulfur pentafluoride	1		-	CAS No 865-54-3	100%

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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:

Serious eye damage/eye irritation Category 2A Skin corrosion/irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Causes skin irritation Causes serious eye irritation May cause respiratory irritation ause serious temporary or prompt medical attention was
Specific target organ toxicity (single exposure) Category 3 Causes skin irritation Causes serious eye irritation May cause respiratory irritation ause serious temporary or
Causes skin irritation Causes serious eye irritation May cause respiratory irritation ause serious temporary or
Causes serious eye irritation May cause respiratory irritation ause serious temporary or
May cause respiratory irritation ause serious temporary or
May cause respiratory irritation ause serious temporary or
re ignition can occur.
n become unstable at elevated s or may react with water with it not violently.
porary or minor injury may occur
s that must be preheated before ignition will occur. Includes liquids, ring a flash point above 200 F. (Class IIIB)

SDS US (GHS HazCom 2012)

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