

## Safety Data Sheet 8H625Z9

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/25/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Methyl 5-(chlorosulfonyl)-1-methyl-1H-pyrrole-2-carboxylate
CAS No	: 306936-53-8
Product code	: 8H62-5-Z9
	: C7H8CINO4S
Formula	
Synonyms	: 5-(Ethoxycarbonyl)-1-methyl-1H-pyrrole-2-sulfonyl chloride; 2-(Chlorosulfonyl)-5- (methoxycarbonyl)-1-methyl-1H-pyrrole
Other means of identification	: MFCD02180789
1.2. Relevant identified uses of the subst	ance 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 d	ata sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 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	: (844) 523-4086 (3E Company - Account 10069)
	. (044) 323-4000 (3E Company - Account 10003)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mi	xture
Classification (GHS-US)	
Skin Corr. 1BH314 - Causes severe skin burnEye Dam. 1H318 - Causes serious eye damSTOT SE 3H335 - May cause respiratory irrFull text of H-phrases: see section 16	age
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</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+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</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>P310 - Immediately call a POISON CENTER or doctor/ physician</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> </ul>
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P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards						
No additional information available						
2.4. Unknown acute toxicity (GHS US)						
Not applicable						
SECTION 3: Composition/information on	ingredients					
3.1. Substance						
Substance type : M	ono-constituent					
Name	Product identifier	%	Classification (GHS-US)			
Methyl 5-(chlorosulfonyl)-1-methyl-1H-pyrrole-2-carboxylate (Main constituent)	(CAS No) 306936-53-8	<= 100	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	· · · · · · · · ·					
	case of accident or if you feel unwell here possible). Move the affected pe					
	emove person to fresh air and keep o spiration. Get immediate medical ad		ing. If not breathing, give artificial			
m	ash with plenty of soap and water. Redical advice/attention.		-			
pr	nmediately flush eyes thoroughly with esent and easy to do. Continue rinsi	ng. Get immediate me	edical advice/attention.			
	o NOT induce vomiting. Never give a outh out with water. Get immediate r					
4.2. Most important symptoms and effects, bo	oth acute and delayed					
	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.					
	nptoms/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 medical atter	tion and special treatment neede	b				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
5 5	cohol resistant foam. Carbon dioxide propriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media			
5.2. Special hazards arising from the substan						
	nermal decomposition generates: Ca iides.	rbon oxides. Hydroge	n chloride. Nitrogen oxides. Sulfur			
	eacts with water, generates gases of lease highly explosive/flammable hy		osure to water with some metals to			
5.3. Advice for firefighters						
Firefighting instructions : In	: In case of fire: Evacuate area.					
	ear gas tight chemically protective c paratus. For further information refe					
SECTION 6: Accidental release measures	S					
6.1. Personal precautions, protective equipme	ent and emergency procedures					
General measures : Ev	acuate unnecessary personnel. Ens	sure adequate air vent	ilation. Do not breathe dust.			
6.1.1. For non-emergency personnel						
Emergency procedures : O	nly qualified personnel equipped with	n suitable protective e	quipment may intervene.			

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6.1.2. For emergency responde	ers
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautic	ns
Avoid release to the environment. N	otify authorities if product enters sewers or public waters.
6.3. Methods and material fo	r containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other section	ons
No additional information available	
SECTION 7: Handling and s	storage
7.1. Precautions for safe han	dling
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 dust, mist, spray. 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 stora	age, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
	: Store in dry, well-ventilated area.

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

9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 79 - 80 °C
Freezing point	: No data available
Boiling point	: No data available
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

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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	: 237.66 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

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

## 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 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	In	format	ion	on	toxi	ico	logi	ica	ef	fect	S

#### Acute toxicity

: Not classified

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	<ul><li>Causes severe skin burns and eye damage.</li><li>Causes serious eye damage.</li><li>Not classified</li></ul>
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	<ul><li>Not classified</li><li>May cause respiratory irritation.</li></ul>
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.

# SECTION 12: Ecological information 12.1. Toxicity

No additional information available

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12.2.	Persistence and degradability			
No addit	tional information available			
12.3.	Bioaccumulative potential			
No addit	tional information available			
12.4.	Mobility in soil			
No addit	tional information available			
12.5.	Other adverse effects			
No addit	tional information available			

I3.1. Waste treatment methods	
Naste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Naste 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)	
n accordance with DOT	
Fransport document description	: UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
JN-No.(DOT)	: UN3261
Proper Shipping Name (DOT)	: Corrosive solid, acidic, organic, n.o.s.
Fransport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
lazard labels (DOT)	: 8 - Corrosive
	8
Packing group (DOT)	: III - Minor Danger
OT Packaging Non Bulk (49 CFR 173.xxx)	: 213
OT Packaging Bulk (49 CFR 173.xxx)	: 240
OOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2)</li> <li>TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.</li> </ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 25 kg
OOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
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Other information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) : 3261 Proper Shipping Name (IMDG) : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. Class (IMDG) : 8 - Corrosive substances Packing group (IMDG) : III - substances presenting low danger Air transport

	insport	
UN-No	. (IATA)	)
_		

: 3261
: Corrosive solid, acidic, organic, n.o.s.
: 8 - Corrosives
: III - Minor Danger

## 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:

Methyl 5-(chlorosulfonyl)-1-methyl-1H-pyrrole-2-carboxylate	CAS No 306936-53-8	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:

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
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

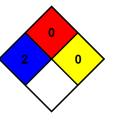
NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

- : 0 Materials that will not burn.
  - : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



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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.