

Cyclopropylmethanesulfonyl chloride Safety Data Sheet 6262501 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: Cyclopropylmethanesulfonyl chl	oride	
CAS No	: 114132-26-2		
Product code	: 6262-5-01		
Formula	: C4H7ClO2S		
Synonyms	: Cyclopropanemethanesulfonyl c	hloride	
Other means of identification	: MFCD10697744		
1.2. Relevant identified uses of the subs	tance or mixture and uses advise	d against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develop	nent	
1.3. Details of the supplier of the safety of	data 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	<u>n</u>		
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)			
Acute Tox. 4 (Oral) H302 - Harmful if sw	allowed		
Acute Tox. 4 (Dermal)H312 - Harmful in coAcute Tox. 4 (Inhalation)H332 - Harmful if inhSkin Corr. 1BH314 - Causes seveEye Dam. 1H318 - Causes sericSTOT SE 3H335 - May cause re	naled ere skin burns and eye damage bus eye damage		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H302+H312+H332 - Harmful if s H314 - Causes severe skin burr H335 - May cause respiratory ir	, .	
Precautionary statements (GHS-US)	 P260 - Do not breathe dust/fum P264 - Wash skin thoroughly aff P270 - Do not eat, drink or smol P271 - Use only outdoors or in a P280 - Wear protective gloves/p P301+P312 - If swallowed: Call P301+P330+P331 - If swallowed P302+P352 - If on skin: Wash w P303+P361+P353 - If on skin (c skin with water/shower P304+P340 - If inhaled: Remove 	a/gas/mist/vapors/spray er handling te when using this product well-ventilated area rotective clothing/eye protection/face protection a POISON CENTER or doctor/ physician if you t: rinse mouth. Do NOT induce vomiting ith plenty of soap and water r hair): Take off immediately all contaminated of the person to fresh air and keep comfortable for the inse cautiously with water for several minutes.	i feel unwell clothing. Rinse preathing
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	P321 P330 P362 P363 P403 P405	 Immediately call a POISON CENTER of Specific treatment (see supplemental f Rinse mouth +P364 - Take off contaminated clothing a Wash contaminated clothing before reative store in a well-ventilated place. Store locked up Dispose of contents/container to an ap 	irst aid instructio and wash it befo use Keep container	ons on this label) ore reuse tightly closed
2.3. Other hazards Other hazards not contributing to the	: Lach	ymator. Stench.		
classification				
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/information	n on in	aredients		
3.1. Substance		greatents		
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Cyclopropylmethanesulfonyl chloride (Main constituent)		(CAS No) 114132-26-2	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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 First-aid measures general	· In ca	se of accident or if you feel unwell, seek	medical advice i	immediately (show the label
Filst-alu measures general		e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comfortaration. Get immediate medical advice/atte		ng. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water. Remove cal advice/attention.	contaminated c	lothing and shoes. Get immediate
First-aid measures after eye contact	prese	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	immediate med	lical advice/attention.
First-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2. Most important symptoms and effect	ts, both	acute and delayed		
Symptoms/injuries	2.2) a	nost important known symptoms and effe and/or in section 11.		<u> </u>
Symptoms/injuries after inhalation		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medical	attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	pray. Use extinguishing media
5.2. Special hazards arising from the sub	stance	or mixture		
Fire hazard		nal decomposition generates: Carbon ox		
Explosion hazard		of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
Reactivity		ts with water, generates gases or heat. F se highly explosive/flammable hydrogen		sure to water with some metals to
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
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Protectio	on during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective ec	uipment 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	
Emerge	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protectiv	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ncy procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	
Avoid re	lease to the environment. Notify authori	ties if product enters sewers or public waters.
6.3.	Methods and material for containm	ent and cleaning up
For cont	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods	s 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 in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addit	tional information available	
SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons 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 storage, includi	ng any incompatibilities
Technic	al 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.
incompa		
	temperature	: 2 - 8 °C Use explosion proof refrigerator

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.

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SECTION 9: Physical and chemica	
9.1. Information on basic physical and	• •
Physical state	: Liquid
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	: 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
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	: 154.615 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	

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 produ	ict is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additio	onal information available
10.4.	Conditions to avoid
Keep awa	y from heat, sparks and flame.
10.5.	Incompatible materials
Strong ac	ids. 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. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Cyclopropylmethanesulfonyl chloride (114132-26-2)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight

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Cyclopropylmethanesulfonyl chloride (114132-26-2)		
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
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.	
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.	

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

No additional information available

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	: UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
UN-No.(DOT)	: UN3265
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s.
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: III - Minor Danger : 203 : 241

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DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
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:

Cyclopropylmethanesulfonyl chloride CAS No 114132-26-2 100%

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

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SECTION 16: Other information

Full tex	t of H-phrases:
	Acute Tox. 4 (Dermal)
	Acute Tox. 4 (Inhalation)
	Acute Tox. 4 (Oral)
	Eye Dam. 1

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
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
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation

Acute toxicity (dermal) Category 4

May cause respiratory irritation NFPA health hazard : 2 - Intense or continued exposure could cause temporary

	incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.	
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	: 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)	
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.