

### Safety Data Sheet 68627X0

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/17/2015 Version: 1.0

SECTION 1. Identification			
SECTION 1: Identification			
1.1. Identification	. Cubatan		
Product form	: Substance		
Substance name	(	yl)benzenesulfonyl chloride	
CAS No	: 54090-08-3		
Product code	: 6862-7-X0		
Formula	: C7H3Cl2F3O2S		
Other means of identification	: MFCD00052310		
1.2. Relevant identified uses of the su	ubstance or mixture and uses	advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substand Scientific research and c		
1.3. Details of the supplier of the safe	ety 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.			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Con	ipany - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance o			
Classification (GHS-US)			
Skin Corr. 1B       H314 - Causes severe skin         Eye Dam. 1       H318 - Causes serious eye         STOT SE 3       H335 - May cause respirato         Full text of H-phrases: see section 16         2.2.       Label elements	damage		
GHS-US labeling			
Hazard pictograms (GHS-US)	CHS05 GH	507	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H314 - Causes severe s H335 - May cause respi	, ,	
Precautionary statements (GHS-US)	P280 - Wear protective of P301+P330+P331 - If sv P303+P361+P353 - If or skin with water/shower P304+P340 - If inhaled: P305+P351+P338 - If in lenses, if present and ea P310 - Immediately call P321 - Specific treatmer P363 - Wash contamina P403+P233 - Store in a P405 - Store locked up		clothing. Rinse preathing
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# 2-Chloro-5-(trifluoromethyl)benzenesulfonyl chloride Safety Data Sheet

2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatior	on ii	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Chloro-5-(trifluoromethyl)benzenesulfonyl chloride (Main constituent)		(CAS No) 54090-08-3	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16			1	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
1.1. Description of first aid measures				
irst-aid measures general		ase of accident or if you feel unwell, seek		
irst-aid measures after inhalation	: Rem	re possible). Move the affected personnel nove person to fresh air and keep comfort	able for breathir	
irst-aid measures after skin contact	: Was	iration. Get immediate medical advice/atte h with plenty of soap and water. Remove ical advice/attention.		lothing and shoes. Get immediate
First-aid measures after eye contact	: Imm	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-aid measures after ingestion	: Do N	NOT induce vomiting. Never give anything th out with water. Get immediate medical	by mouth to an	unconscious person. Rinse
I.2. Most important symptoms and effect	s, both	acute and delayed		
Symptoms/injuries		most important known symptoms and effer and/or in section 11.	ects are describ	ed in the labelling (see section
Symptoms/injuries after inhalation		erial is destructive to tissue of the mucuou tness of breath, headache, nausea.	is membranes a	nd upper respiratory tract. Cough
4.3. Indication of any immediate medical	attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the sub	stance	or mixture		
Fire hazard		mal decomposition generates: Carbon ox ur oxides.	ides. Hydrogen	chloride. Hydrogen fluoride.
Explosion hazard		of explosion if heated under confinement ainers. May form flammable/explosive va		ay or fog for cooling exposed
Reactivity		cts with water, generates gases or heat. F ase highly explosive/flammable hydrogen		ure to water with some metals to
3. Advice for firefighters				
irefighting instructions	: In ca	ase of fire: Evacuate area. Fight fire remo	tely due to the ri	sk of explosion.
Protection during firefighting		r gas tight chemically protective clothing i aratus. For further information refer to sec		
SECTION 6: Accidental release meas				
6.1. Personal precautions, protective equ				
General measures		cuate unnecessary personnel. Ensure ade or or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitab	le protective equ	uipment may intervene.

# **2-Chloro-5-(trifluoromethyl)benzenesulfonyl chloride** Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.1.2. 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".
mergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
void release to the environment. Notify authori	ties if product enters sewers or public waters.
.3. Methods and material for containm	ent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Nethods 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 sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
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 storage, include	ing any incompatibilities
Fechnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Storage conditions	· · · · · · · · · · · · · · · · · · ·
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
ncompatible materials	
ncompatible materials Storage area SECTION 8: Exposure controls/pers 8.1. Control parameters	<ul><li>Refer to Section 10 on Incompatible Materials.</li><li>Store in dry, cool, well-ventilated area.</li></ul>
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Appropriate engineering controls Appropriate engineering controls And protection	<ul> <li>Refer to Section 10 on Incompatible Materials.</li> <li>Store in dry, cool, well-ventilated area.</li> </ul> conal protection 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. Protective gloves. 29 CFR 1910.138: Hand Protection.
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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	:	279.06 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.

#### Possibility of hazardous reactions 10.3.

No additional information available

#### 10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

#### **Incompatible materials** 10.5.

Bases. Strong oxidizing agents.

Hazardous decomposition products 10.6.

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

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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
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects
No addit	ional 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)

- : 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



Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241 DOT Symbols : G - Identifies PSN requiring a technical name : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102) (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 DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L CFR 175.75) 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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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

: 3265
: Corrosive liquid, 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:

2-Chloro-5-(trifluoromethyl)benzenesulfonyl chloride CAS No 54090-08-3 100%

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
Í	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Í	H314	Causes severe skin burns and eye damage
Í	H318	Causes serious eye damage
	H335	May cause respiratory irritation

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was 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.

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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	<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	: 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.