

Safety Data Sheet 6862735 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/27/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3,5-Bis(trifluoromethyl)benzenesulfonyl chloride
CAS No	: 39234-86-1
Product code	: 6862-7-35
Formula	: C8H3CIF6O2S
Other means of identification	: MFCD00014725
1.2. Relevant identified uses of the subst	tance 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 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)	
Eye Dam. 1H318 - Causes serious eye danSTOT SE 3H335 - May cause respiratory inFull text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05 CHS07
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)	 P260 - Do not breathe dust, fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. **Other hazards**

Other hazards not contributing to the : Contact with water liberates toxic gas. classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance Substa

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Name Product identifier	%	Classification (GHS-US)
3,5-Bis(trifluoromethyl)benzenesulfonyl chloride (CAS No) 39234-86-1 (Main constituent)	<= 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		
First-aid measures general : In case of accident or if you fe where possible). Move the aff	eel unwell, seek medical advice ected personnel away from the	
First-aid measures after inhalation : Remove person to fresh air air respiration. Get immediate me		ning. If not breathing, give artificial
First-aid measures after skin contact : Wash with plenty of soap and medical advice/attention.	water. Remove contaminated	clothing and shoes. Get immediate
	ughly with water for at least 15 nue rinsing. Get immediate me	minutes. Remove contact lenses, if edical advice/attention.
First-aid measures after ingestion : Do NOT induce vomiting. New mouth out with water. Get imm	ver give anything by mouth to a nediate medical advice/attention	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/injuries: The most important known sy2.2) and/or in section 11.	mptoms and effects are descri	ibed in the labelling (see section
Symptoms/injuries after inhalation : Material is destructive to tissu shortness of breath, headach		and upper respiratory tract. Cough,

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2.	Special hazards arising from the su	bstance or mixture
Fire haz	ard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride. Hydrogen fluoride. Sulfur oxides.
Reactivi	ty	: Reacts with water, generates gases or heat.
5.3.	Advice for firefighters	
Firefight	ting instructions	: In case of fire: Evacuate area.
Protecti	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 eq	Personal precautions, protective equipment and emergency procedures	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. 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.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2.	For emergency responders	
Protect	ve 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 precautions	
Avoid r	elease to the environment. Notify autho	rities if product enters sewers or public waters.
6.3.	Methods and material for containment and cleaning up	
For con	tainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Method	s for cleaning up	Minimize generation of dust. 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 ir	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions 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, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene	e 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, inclu	ding any incompatibilities
1.2.	al measures	: Comply with applicable regulations.
	aimeasules	
Technic	e conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Technic Storage		 Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas. Refer to Section 10 on Incompatible Materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

No additional information available

9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 36 - 38 °C	
Freezing point	: No data available	
Boiling point	: 70 °C (@ 2 mm Hg)	
Flash point	: 108 °C	
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	: 312.617 g/mol	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 addi	itional information available
SECT	ION 10: Stability and reactivity
10.1.	Reactivity
Reacts	with water, generates gases or heat.
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong I	bases. Strong oxidizing agents. Water.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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.

SECTI	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available
12.4.	Mobility in soil
No additi	onal information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.5. Other adverse effects

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.
	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT Transport 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.
ransport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
lazard labels (DOT)	: 8 - Corrosive
	8
acking group (DOT)	: III - Minor Danger
OOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
OOT Packaging Bulk (49 CFR 173.xxx)	: 240
OT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal
OOT Packaging Exceptions (49 CFR 173.xxx)	: 154
OT Quantity Limitations Passenger aircraft/rail 9 CFR 173.27)	: 25 kg
OT Quantity Limitations Cargo aircraft only (49 FR 175.75)	: 100 kg
OT 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.
DG	
No additional information available	
ransport by sea	

11/28/2017

: 3261

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	
UN-No. (IATA)	: 3261
Proper Shipping Name (IATA)	: Corrosive solid, 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:

3,5-Bis(trifluoromethyl)benzenesulfonyl chloride	CAS No 39234-86-1	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:

11/28/2017	EN (English US)	SDS ID: 6862735	6/7	
SDS US (GHS HazCom 2012)				
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.			
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) 		
Health	: 3 Serious Hazard - M given	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
HMIS III Rating				
NFPA reactivity	: 0 - Normally stable, eve and are not reactive wit	n under fire exposure conditions,		
NFPA fire hazard	: 1 - Must be preheated b	: 1 - Must be preheated before ignition can occur.		
NFPA health hazard		d cause serious temporary or ugh prompt medical attention was		
		May cause respiratory irritation		
H318 H335		Causes serious eye damage		
H314		Causes severe skin burns and eye damage		
STOT SE 3		Specific target organ toxicity (single exposure) Category 3		
Skin Corr. 1B		Skin corrosion/irritation Category 1B		
Eye Dam. 1		Serious eye damage/eye irritation Category 1		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.