

Safety Data Sheet 6762734

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	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Fluoro-4-methylbenzenesulfonyl chloride
CAS No	: 90260-13-2
Product code	: 6762-7-34
Formula	: C7H6CIFO2S
Synonyms	: 4-(Chlorosulfonyl)-2-fluorotoluene
Other means of identification	: MFCD03094389
1.2. Relevant identified uses of the	substance 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 sa	ifety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	or mixture
Classification (GHS-US)	
Skin Corr. 1B Eye Dam. 1 STOT SE 3 H314 - Causes severe ski H318 - Causes serious ey H335 - May cause respira	ve damage
Full text of H-phrases: see section 16	
2.2 Label elements	
2.2. Label elements GHS-US labeling	
Hazard pictograms (GHS-US)	
nazaru pictograms (Chio-00)	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 inbaled: Remove person to fresh air and keep comfortable for breathing.</li> </ul>

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

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

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2.3. Other hazards	3. Other hazards				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
<b>SECTION 3: Composition/information</b>	on in	gredients			
3.1. Substance					
Substance type	: Mond	-constituent			
Name		Product identifier	%	Classification (GHS-US)	
3-Fluoro-4-methylbenzenesulfonyl chloride (Main constituent)		(CAS No) 90260-13-2	<= 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		se of accident or if you feel unwell, seek ne possible). Move the affected personnel			
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. 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		Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			•		
4.2. Most important symptoms and effect	s, both	acute and delayed			
Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.					
Symptoms/injuries after inhalation		ial 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 po priate 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 r oxides.	ides. Hydrogen	chloride. Hydrogen fluoride.	
Reactivity		ts with water, generates gases or heat. R se highly explosive/flammable hydrogen		sure to water with some metals to	
5.3. Advice for firefighters					
Firefighting instructions	: In cas	se of fire: Evacuate area.			
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sect			
SECTION 6: Accidental release meas	ures				
6.1. Personal precautions, protective equipment and emergency procedures					
General measures	: Evac	uate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.	
6.1.1.       For non-emergency personnel         Emergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.					

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6.1.2. For em	nergency responders	
Protective equipr	nent	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Enviro	nmental precautions	
Avoid release to	the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Metho	ds and material for containme	nt and cleaning up
For containment		: Stop leak if safe to do so.
Methods for clear	ning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	ı	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Refere	nce to other sections	
No additional info	ormation available	
SECTION 7:	Handling and storage	
7.1. Precau	utions for safe handling	
Precautions for s	afe 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 measure	es	: 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. Condit	tions for safe storage, includin	g any incompatibilities
Technical measu	ires	: Comply with applicable regulations.
Storage condition	าร	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible mat	terials	: Refer to Section 10 on Incompatible Materials.
Storogo orog		· Store in dry, coal, well ventilated area

Storage area : Store in dry, cool, well-ventilated area.

### **SECTION 8: Exposure controls/personal protection**

**Control parameters** 8.1.

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 and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 46 - 50 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 °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

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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	: 208.64 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

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 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 additional information available				
12.2.	Persistence and degradability			
No add	itional information available			

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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		

SECTION 13: Disposal consider	ations
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 informa	tion
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)

- : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
- : UN3261
- : Corrosive solid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



: III - Minor Danger

- Packing group (DOT)
- DOT Packaging Non Bulk (49 CFR 173
- DOT Packaging Bulk (49 CFR
- DOT Symbols
- DOT Special Provisions (49 CF

DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT 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 tanks conforming to the provisions of 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
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT 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. Other information

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### 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	
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

### **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:

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.

CAS No 90260-13-2

### 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:

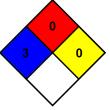
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

NFPA health hazard

:	3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
	<ul> <li>Meteriale that will not have</li> </ul>

NFPA fire hazard NFPA reactivity

- : 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.