

4-(Trifluoromethoxy)thiophenol Safety Data Sheet 6662374 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/10/2015 Revision date: 01/26/2017 Version: 1.1

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4-(Trifluoromethoxy)thioph	enol	
CAS No	: 169685-29-4		
Product code	: 6662-3-74		
Formula	: C7H5F3OS		
Synonyms	: 4-(Trifluoromethyoxy)benz	enethiol	
Other means of identification	: MFCD00052312		
1.2. Relevant identified uses of the sul	bstance or mixture and uses a	dvised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substance Scientific research and de		
1.3. Details of the supplier of the safet	y 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.co 1.4. Emergency telephone number	:om		
Emergency number	: (844) 523-4086 (3E Comp	any - Account 10069)	
5 7		,	
SECTION 2: Hazard(s) identificatio	n		
2.1. Classification of the substance or	mixture		
Classification (GHS-US)			
Acute Tox. 4 (Oral)H302 - Harmful ifAcute Tox. 4 (Dermal)H312 - Harmful inAcute Tox. 3 (Inhalation)H313 - Toxic if inhSkin Irrit. 2H315 - Causes skEye Irrit. 2AH319 - Causes skSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	contact with skin naled in irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	CHS06 CHS0		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	•	e irritation	
Precautionary statements (GHS-US)	P271 - Use only outdoors P280 - Wear protective glu P301+P312 - If swallowed P302+P352 - If on skin: W P304+P340 - If inhaled: R	hly after handling smoke when using this product or in a well-ventilated area wes/protective clothing/eye protection/face protect c Call a POISON CENTER or doctor/ physician if y ash with plenty of soap and water emove person to fresh air and keep comfortable fo yes: Rinse cautiously with water for several minute y to do. Continue rinsing	ou feel unwell r breathing
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		P321 P330 P332- P337- P362- P403- P405	 Call a POISON CENTER or doctor/phy Specific treatment (see supplemental fi Rinse mouth P313 - If skin irritation occurs: Get medi P313 - If eye irritation persists: Get medi P364 - Take off contaminated clothing a P233 - Store in a well-ventilated place. Store locked up Dispose of contents/container to an ap 	rst aid instruction cal advice/atten lical advice/atten and wash it befor Keep container	ons on this label) ntion ntion re reuse tightly closed
2.3.	Other hazards				
Other haz classificati		Stenc	h.		
	Unknown acute toxicity (GHS US)				
Not applic	able				
SECTIO	N 3: Composition/information	on in	gredients		
3.1.	Substance				
Substance	e type :	Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
4-(Trifluor (Main const	omethoxy)thiophenol tituent)		(CAS No) 169685-29-4	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of	f H-phrases: see section 16				
3.2.	Mixture				
Not applic	able				
SECTIO	N 4: First aid measures				
l.1.	Description of first aid measures				
⁻irst-aid m			e of accident or if you feel unwell, seek r possible). Move the affected personnel		
	neasures general :	where Remo		away from the c able for breathin	contaminated area.
First-aid m First-aid m	neasures general : neasures after inhalation : neasures after skin contact :	where Remo respir Wash	possible). Move the affected personnel ve person to fresh air and keep comforta ation. Get immediate medical advice/atte with plenty of soap and water. Get imme	away from the c able for breathin ention. ediate medical a	contaminated area. g. If not breathing, give artificial advice/attention.
First-aid m First-aid m First-aid m	neasures general : neasures after inhalation : neasures after skin contact : neasures after eye contact :	where Remo respira Wash Imme prese	possible). Move the affected personnel ve person to fresh air and keep comforta ation. Get immediate medical advice/atte with plenty of soap and water. Get imme diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get	away from the c able for breathin ention. ediate medical a for at least 15 m immediate med	contaminated area. g. If not breathing, give artificial advice/attention. inutes. Remove contact lenses, if ical advice/attention.
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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment 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 Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2. 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".	
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.	
6.2. Environmental precautions		
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.	
6.3. 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.	
Methods 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, includ	ing any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Air sensitive. Keep contents under inert gas.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	
SECTION 8: Exposure controls/pers	sonal 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.	
SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	

3.1.	information on basic physic	ai and chemical properties	
Physical	state	: Liquid	
Color		: No data available	
Odor		: No data available	
Odor thre	eshold	: No data available	
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рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 64 - 66 (@ 15 mm Hg)
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	: 194.17
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	
Refractive index	: 1.4745 (@ 20 °C)
SECTION 10: Stability and reactivi	ty
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	storage conditions.
10.3. Possibility of hazardous reactions	S
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Air. Strong oxidizing agents.	
10.6. Hazardous decomposition produc	cts
Under normal conditions of storage and use, h fire, see Section 5.	nazardous decomposition products should not be produced. Hazardous decomposition products in case of

SECT	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled.

Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
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	
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Aspirati	on hazard	: Not classified
SECT	ION 12: Ecological information	
12.1.	Toxicity	
No add	tional information available	
12.2.	Persistence and degradability	
No add	tional information available	
12.3.	Bioaccumulative potential	
No add	tional information available	
12.4.	Mobility in soil	
No add	tional information available	
12.5.	Other adverse effects	
No add	tional information available	

SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. 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	: UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
UN-No.(DOT)	: UN2810

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

DOT Symbols

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

DOT Packaging Bulk (49 CFR 173.xxx)

- : Toxic, liquids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- 6.1 Poison



- : III Minor Danger
- : 203
 - : 241
 - : G Identifies PSN requiring a technical name

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (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) : 153 DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

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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)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
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:

4-(Trifluoromethoxy)thiophenol	CAS No 169685-29-4	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	

Revision date

: 01/26/2017

Full text of I	I-phrases:
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Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation

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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	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.