

Safety Data Sheet 86663X5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/14/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Amino-4-[(trifluoromethyl)thio]phenol
CAS No	: 228401-48-7
Product code	: 8666-3-X5
Formula	: C7H6F3NOS
Synonyms	: 2-Amino-4-[(trifluoromethyl)sulfanyl]phenol; 2-Hydroxy-5-[(trifluoromethyl)thio]aniline
Other means of identification	: MFCD23703635
1.2. Relevant identified uses of the s	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 saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlabs</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Horord(c) identificati	
SECTION 2: Hazard(s) identificati	lon
Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin i	allowed rritation
Classification (GHS-US)Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin inEye Irrit. 2AH319 - Causes serionSTOT SE 3H335 - May cause re	allowed irritation us eye irritation
Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin i Eye Irrit. 2A H319 - Causes seriou	allowed irritation us eye irritation
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Classification (GHS-US)Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes seriorSTOT SE 3H335 - May cause reFull text of H-phrases: see section 162.2.Label elements	allowed irritation us eye irritation
Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin in Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	allowed rritation us eye irritation spiratory irritation
Classification (GHS-US)Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin inEye Irrit. 2AH319 - Causes serionSTOT SE 3H335 - May cause reFull text of H-phrases: see section 162.2.Label elementsGHS-US labeling	allowed rritation us eye irritation spiratory irritation :

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	P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it 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			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Amino-4-[(trifluoromethyl)thio]phenol (Main constituent)		(CAS No) 228401-48-7	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
t-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.			
irst-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.				
irst-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 effects, both acute and delayed				
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical attention and special treatment needed				
reat symptomatically.				
SECTION 5: Firefighting measures				
.1. Extinguishing media				
Suitable extinguishing media	· Alcoh	nol resistant foam. Carbon dioxide. Dry po	wder Water so	prav. Use extinguishing media
		opriate for surrounding fire.	maon mator sp	Aray. Soo oxinguishing mould
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard		mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides. Sulfur
Explosion hazard		of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
3.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	ely due to the ris	sk of explosion.
Protection during firefighting		r gas tight chemically protective clothing i ratus. For further information refer to sec		0
SECTION 6: Accidental release mea	sur <u>es</u>			

: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, General measures vapor or spray.

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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 authorities if product enters sewers or public waters.

.3. Methods and material for containment 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, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area. Light sensitive.

SECTION 8. EV	posure controls/	norsonal	protection
SLUTION 0. LA		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.

SECTION 9: Physical and chemical properties

9.1. Information on basi	c physical and chemical properties	
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	: 55 - 62 °C (@ 0.2 mm Hg)	

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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	: 209.189 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

Nc additional information available

No additional information available			
SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
No add	itional information available		
10.2.	Chemical stability		
The pro	oduct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No add	itional information available		
10.4.	Conditions to avoid		
Keep a	way from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong	acids. Strong bases. Strong oxidizing agents.		
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	: Oral: Harmful if swallowed.
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
Aspiration hazard	: Not classified

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

Department of Transportation (DOT)

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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:

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2-Amino-4-[(trifluoromethyl)thio]phenol	CAS No 228401-48-7	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 text of H-phrases:

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		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H335	May cause respiratory irritation		
NFPA health hazard NFPA fire hazard NFPA reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 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.