

Safety Data Sheet 46563X3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/21/2019 Version: 1.0

SECTION 4. Identification			
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 5-Amino-2-(trifluoromethoxy)be	nzotrifluoride	
CAS No	: 104678-68-4		
Product code	: 4856-3-X3		
Formula	: C8H5F6NO		
Synonyms	(trifluoromethyl)anisole	methyl)aniline; 4-Amino-alpha,alpha,alpha-trifluo	oro-2-
Other means of identification	: MFCD04972664		
1.2. Relevant identified uses of the subst	ance or mixture and uses advise	d against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develop	ment	
1.3. Details of the supplier of the safety d	ata 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	L		
1.4. Emergency telephone number	(0.1.1) 500, 1000 (05, 0,	A	
Emergency number	: (844) 523-4086 (3E Company -	Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	xture		
Classification (GHS-US)			
Acute Tox. 3 (Oral)H301 - Toxic if swalldAcute Tox. 4 (Dermal)H312 - Harmful in coAcute Tox. 4 (Inhalation)H332 - Harmful if inhSkin Irrit. 2H315 - Causes skin iEye Dam. 1H318 - Causes serioSTOT SE 3H335 - May cause re	ntact with skin aled rritation us eye damage		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05 GHS06	GHS07	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H312+H332 - Harmful in conta H315 - Causes skin irritation H318 - Causes serious eye dar H335 - May cause respiratory in	nage	
Precautionary statements (GHS-US)	P301+P310 - If swallowed: Imm P302+P352 - If on skin: Wash v P304+P340 - If inhaled: Remov	ter handling ke when using this product a well-ventilated area protective clothing/eye protection/face protection rediately call a poison center/doctor/ vith plenty of soap and water e person to fresh air and keep comfortable for b Rinse cautiously with water for several minutes.	reathing
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		P321 P330	<ul> <li>Immediately call a POISON CENTER ( - Specific treatment (see supplemental f</li> <li>Rinse mouth</li> <li>+P313 - If skin irritation occurs: Get med</li> </ul>	irst aid instruction	ons on this label)
		P403 P405	<ul> <li>+P364 - Take off contaminated clothing a</li> <li>+P233 - Store in a well-ventilated place.</li> <li>- Store locked up</li> <li>- Dispose of contents/container to an ap</li> </ul>	Keep container	tightly closed
2.3.	Other hazards				
√o additi	onal information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli	cable				
SECTI	ON 3: Composition/informatior	n on in	gredients		
3.1.	Substance				
Substand	ce type	: Mono	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
5-Amino (Main con	-2-(trifluoromethoxy)benzotrifluoride stituent)		(CAS No) 104678-68-4	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not appli					
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
	measures after inhalation	respi	ove person to fresh air and keep comforta ration. Get immediate medical advice/atte	ention.	
	measures after skin contact		with plenty of soap and water. Get imm		
	measures after eye contact	prese	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	immediate med	lical advice/attention.
First-aid	measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2.	Most important symptoms and effect	s, both	acute and delayed		
Symptom	ns/injuries		nost important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
Treat syr	nptomatically.				
SECTI	ON 5: Firefighting measures				
5.1.	Extinguishing media				
	extinguishing media		nol resistant foam. Carbon dioxide. Dry poppriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the sub	stance	or mixture		
Fire haza			mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
Explosio	n hazard		of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
5.3.	Advice for firefighters				
Firefighti	ng instructions	: In ca	se of fire: Evacuate area. Fight fire remot	ely due to the ri	sk of explosion.
<b>-</b> :	n during firefighting	. \//	gas tight chemically protective clothing i	n combination w	with a alf contained breathing

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SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment 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 authoriti	ies if product enters sewers or public waters.
6.3. Methods and material for containme	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, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Air sensitive. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, well-ventilated area.
SECTION 8: Exposure controls/perse	onal 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

Other information

Protection. : Safety shoes. 29 CFR 1910.136: Foot Protection

sical and chemical n	roperties		

SECTION 9: Physical and chemical properties		
9.1. Information on bas	c physical and chemical properties	
Physical state	: Liquid	
Color	: No data available	

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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	: No data available
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	: 245.1218 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

#### **Other information** 9.2.

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong I	pases. Strong oxidizing agents. Strong reducing agents.
10.6.	Hazardous decomposition products
	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of section 5.

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

### Acute toxicity

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

5-Amino-2-(trifluoromethoxy)benzotrifluoride (104678-68-4)		
ATE US (oral)	100.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	

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Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
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

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 additional 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	: UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	<ul> <li>: UN2810</li> <li>: Toxic, liquids, organic, n.o.s.</li> <li>: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132</li> <li>: 6.1 - Poison</li> </ul>
Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols	<ul> <li>III - Minor Danger</li> <li>203</li> <li>241</li> <li>G - Identifies PSN requiring a technical name</li> </ul>

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>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).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
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
<b>SECTION 15: Regulatory information</b>	

### 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:		
5-Amino-2-(trifluoromethoxy)benzotrifluoride	CAS No 104678-68-4	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

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### **SECTION 16: Other information**

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H301	Toxic if swallowed	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
NFPA fire hazard NFPA reactivity	<ul> <li>given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>	
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.