

# 4-(tert-Butoxy)benzotrifluoride

Safety Data Sheet 2807314 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/26/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-(tert-Butoxy)benzotrifluoride
CAS No	: 16222-44-9
Product code	: 2807-3-14
Formula	: C11H13F3O
Other means of identification	: MFCD09763645
1.2. Relevant identified uses of the subst	ance 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 ofSynQuest Laboratories, Inc.P.O. Box 309Alachua, FL 32615 - United States of AmericaT (386) 462-0788 - F (386) 462-7097info@synquestlabs.com- www.synquestlabs.com	
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)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatiSTOT SE 3H335 - May cause respiratory irritFull text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	<ul> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing 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 P302+P352 - If on skin: Wash with plenty of soap and water 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention 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</li> </ul>

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2.3. Other hazards				
lo additional information available				
.4. Unknown acute toxicity (GHS US)				
lot applicable				
ECTION 3: Composition/informat	ion on ingredients			
.1. Substance				
Substance type	: Mono-constituent			
Name	Product iden	tifier	%	Classification (GHS-US)
4-(tert-Butoxy)benzotrifluoride (Main constituent)	(CAS No) 16222-	44-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16	I		1	
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general				immediately (show the label
irst-aid measures after inhalation	: Remove person to fre		-	contaminated area. ng. If not breathing, give artificial
irat aid magaurag after akin contact	respiration. Get medi		lical advice latte	ation
irst-aid measures after skin contact irst-aid measures after eye contact		soap and water. Get mec		ntion. ninutes. Remove contact lenses, if
	present and easy to o	do. Continue rinsing. Get	medical advice	
irst-aid measures after ingestion	mouth out with water	. Get medical advice/atte		runconscious person. Rinse
.2. Most important symptoms and ef				
symptoms/injuries	<ol> <li>The most important k</li> <li>2.2) and/or in section</li> </ol>		ects are describ	ed in the labelling (see section
I.3. Indication of any immediate medi	cal attention and special t	reatment needed		
reat symptomatically.				
SECTION 5: Firefighting measures				
.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foar appropriate for surrou		owder. Water sp	pray. Use extinguishing media
.2. Special hazards arising from the	substance or mixture			
ïre hazard	: Thermal decompositi	on generates: Carbon o	kides. Hydrogen	fluoride.
xplosion hazard	: Risk of explosion if he containers.	eated under confinemen	t. Use water spr	ay or fog for cooling exposed
.3. Advice for firefighters				
irefighting instructions	: In case of fire: Evacu	ate area. Fight fire remo	tely due to the r	isk of explosion.
rotection during firefighting				with self contained breathing re controls/personal protection".
ECTION 6: Accidental release me	asures			
.1. Personal precautions, protective				
Seneral measures	: Evacuate unnecessa vapor or spray.	ry personnel. Ensure ad	equate air ventil	ation. Do not breathe gas, fumes,
.1.1. For non-emergency personnel				
mergency procedures	: Only qualified person	nel equipped with suitab	le protective eq	uipment may intervene.
.1.2. For emergency responders				
rotective equipment		e action without suitable		oment. For further information
mergency procedures			•	ces, particularly at or below ground
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es if product enters sewers or public waters.
nt and cleaning up
: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
: 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.
: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
: 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.
: 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.
ng any incompatibilities
: Comply with applicable regulations.
: Keep container closed when not in use.
: Refer to Section 10 on Incompatible Materials.
: Store in dry, cool, well-ventilated area.

## SECTION 8: Exposure controls/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

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Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: No data available		
Boiling point	: No data available		
Freezing point	: No data available		
Melting point	: No data available		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Physical state	: Liquid		
9.1. Information on basic physical and	I chemical properties		

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 218.2155 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

SECTIO	N 10: Stability and reactivity
<b>10.1.</b>	Reactivity
No additio	nal information available
10.2.	Chemical stability
The produ	ct is stable at normal handling and storage conditions.
10.3. I	Possibility of hazardous reactions
No additio	nal information available
10.4.	Conditions to avoid
Keep away	y from heat, sparks and flame.
10.5. I	Incompatible materials
Strong aci	ds. Strong bases. Strong oxidizing agents.
40.0	

#### **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.	Informat	ion on t	toxico	logica	l ef	fects

Acute toxicity	: Not classified
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

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available

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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with	h 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		
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 inform	ation	
15.1. US Federal regulations		
All components of this product are listed, Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmenta except for:	Il Protection Agency Toxic
4-(tert-Butoxy)benzotrifluoride	CAS No 16222-44-9	100%

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:

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
H315	Causes skin irritation
H319	Causes serious eye irritation
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	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	·
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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.