

Safety Data Sheet 4854302 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/10/2018 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 2-Nitrobenzotrifluoride
CAS No	: 384-22-5
Product code	: 4854-3-02
Formula	: C7H4F3NO2
Synonyms	: 2-(Trifluoromethyl)-1-nitrobenzene
Other means of identification	: MFCD00007145
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 sat 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 - www.synquestlabs	ica
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
Classification (GHS-US)	
	 Fatal if inhaled Causes skin irritation Causes sociaus avairritation
Eye Irrit. 2A H319 - STOT SE 3 H335 -	
Eye Irrit. 2A H319 - STOT SE 3 H335 - Full text of H-phrases: see section 16	- Causes skin irritation - Causes serious eye irritation
Eye Irrit. 2AH319 -STOT SE 3H335 -Full text of H-phrases: see section 162.2.Label elements	- Causes skin irritation - Causes serious eye irritation
Eye Irrit. 2AH319 -STOT SE 3H335 -Full text of H-phrases: see section 162.2.Label elementsGHS-US labeling	 Causes skin irritation Causes serious eye irritation May cause respiratory irritation :
Eye Irrit. 2A H319 - STOT SE 3 H335 - Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	- Causes skin irritation - Causes serious eye irritation
Eye Irrit. 2AH319 -STOT SE 3H335 -Full text of H-phrases: see section 16	 Causes skin irritation Causes serious eye irritation May cause respiratory irritation : <li:< li=""> : : <li:< li=""> :</li:<></li:<>
Eye Irrit. 2A H319 - STOT SE 3 H335 - Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Causes skin irritation Causes serious eye irritation May cause respiratory irritation : i i<

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	P321 P330 P332- P337- P362- P403- P403- P405	 Specific treatment is urgent (see supple - Specific treatment (see supplemental f - Rinse mouth +P313 - If skin irritation occurs: Get med +P313 - If eye irritation persists: Get med +P364 - Take off contaminated clothing a +P233 - Store in a well-ventilated place. Store locked up Dispose of contents/container to an ap 	irst aid instructio ical advice/atten dical advice/atten and wash it befo Keep container	ons on this label) tion ntion re reuse tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	5)			
Not applicable				
SECTION 3: Composition/informa	ation on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Nitrobenzotrifluoride (Main constituent)		(CAS No) 384-22-5	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 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				
.1. Description of first aid measures				
irst-aid measures general	where	e of accident or if you feel unwell, seek possible). Move the affected personnel	away from the o	contaminated area.
irst-aid measures after inhalation	respir	ve person to fresh air and keep comforta ation. Get immediate medical advice/atte with plenty of soap and water. Get imme	ention.	
First-aid measures after eye contact	: Imme	diately flush eyes thoroughly with water nt and easy to do. Continue rinsing. Get	for at least 15 m	inutes. Remove contact lenses, if
First-aid measures after ingestion		OT induce vomiting. Never give anything out with water. Get immediate medical		
.2. Most important symptoms and e	effects, both a	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe nd/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate med	dical attention	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measure	S			
i.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the				
ire hazard	: Thern	nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
.3. Advice for firefighters				
irefighting instructions Protection during firefighting	: Wear	e of fire: Evacuate area. gas tight chemically protective clothing i atus. For further information refer to sec		
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective		and emergency procedures		
General measures	: Evacu	ate unnecessary personnel. Ensure ade ne gas, fumes, vapor or spray.	equate air ventila	ation. Do not breathe dust. Do not
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6.1.1.	For non-emergency personnel	
Emerg	ency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protec	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid ı	elease to the environment. Notify author	prities if product enters sewers or public waters.
6.3.	Methods and material for contain	ment and cleaning up
For co	ntainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
	ds for cleaning up	: Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry

Other information

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 dust, 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.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

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

9.1. Information on basic ph	sical and chemical properties		
Physical state	: Solid		
Appearance	: Low melting solid.		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: 31 - 32 °C		
Freezing point	: No data available		
Boiling point	: 104 - 105 °C (@ 20 mm Hg)		
Flash point	: 95 °C		
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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	: 191.1074 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 add	itional 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	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

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Inhalation:dust,mist: Fatal if inhaled.

2-Nitrobenzotrifluoride (384-22-5)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dust, mist)	0.050 mg/l/4h
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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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No addi	itional information available

SECTION 13: Disposal consideratio	ns
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

UN-No.(DOT)

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

Packing group (DOT) Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

- : UN3431 Nitrobenzotrifluorides, solid, 6.1, II
- : UN3431
- : Nitrobenzotrifluorides, solid
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



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DOT Special Provisions (49 CFR 172.102)	 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 (13H 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal	with ted e k able
DOT Packaging Exceptions (49 CFR 173.xxx)	153	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	200 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.	
DOT Vessel Stowage Other	95 - Stow "separated from" foodstuffs	
Other information	No supplementary information available.	
TDG		
No additional information available		
Transport by sea		
UN-No. (IMDG)	3431	
Proper Shipping Name (IMDG)	NITROBENZOTRIFLUORIDES, SOLID	
Class (IMDG)	6.1 - Toxic substances	
Packing group (IMDG)	II - substances presenting medium danger	
Air transport		
UN-No. (IATA)	3431	
Proper Shipping Name (IATA)	Nitrobenzotrifluorides, solid	
Class (IATA)	6.1 - Toxic Substances	
Packing group (IATA)	II - Medium 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:

2-Nitrobenzoti nidolide CAS No 384-22-5 100%	2-Nitrobenzotrifluoride		100%
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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

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	National regulations						
	2-Nitrobenzotrifluoride (384-22-5)						
Listed on the Japanese ISHL (Industrial Safety and Health Law)							
	Listed on the Canadian IDL (Ingredient Disclosure List)						

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:

	Acute Tox. 2 (Inhalation:dust,mist)			Acute toxicity (inhalation:dust,mist) Category 2
	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
	H330			Fatal if inhaled
	H335			May cause respiratory irritation
NFPA health hazard NFPA fire hazard NFPA reactivity		:	residual injury even thoug given. 1 - Must be preheated bef	under fire exposure conditions,
HMIS I	II Rating			
Health	 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given * - Chronic (long-term) health effects may result from repeated overexposure 			
(b				
Flamm	adility	:		Is that must be preheated before ignition will occur. Includes liquids, wing a flash point above 200 F. (Class IIIB)
			rials that are normally stable, even under fire conditions, and will NOT rize, 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.