

Safety Data Sheet 4854325 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/07/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Fluoro-5-nitrobenzotriflu	oride	
CAS No	: 400-74-8		
Product code	: 4854-3-25		
Formula	: C7H3F4NO2		
Synonyms	: 1-Fluoro-4-nitro-2-(trifluor	omethyl)benzene; 5-Nitro-alpha,alpha,alpha,2-tetraf	luorotoluene
Other means of identification	: MFCD00024576		
.2. Relevant identified uses of the	substance or mixture and uses a	dvised against	
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substance Scientific research and de		
.3. Details of the supplier of the sa	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlab</u>			
.4. Emergency telephone number			
mergency number	: (844) 523-4086 (3E Comp	any - Account 10069)	
SECTION 2: Hazard(s) identificat	tion		
2.1. Classification of the substance	e or mixture		
Classification (GHS-US)			
STOT SE 3 H335 - May cause respirate Full text of H-phrases: see section 16 2.2. Label elements	ory irritation		
GHS-US labeling Hazard pictograms (GHS-US)	•		
nazaru piciograms (GHS-03)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H227 - Combustible liquid H315 - Causes skin irritati H319 - Causes serious ey H335 - May cause respira	on e irritation	
Precautionary statements (GHS-US)	P261 - Avoid breathing du P264 - Wash skin thoroug P271 - Use only outdoors P280 - Wear protective gl P302+P352 - If on skin: W P304+P340 - If inhaled: R P305+P351+P338 - If in e lenses, if present and eas P312 - Call a POISON CE P321 - Specific treatment P332+P313 - If skin irritati	or in a well-ventilated area oves/protective clothing/eye protection/face protectio /ash with plenty of soap and water emove person to fresh air and keep comfortable for yes: Rinse cautiously with water for several minutes y to do. Continue rinsing NTER or doctor/physician if you feel unwell (see supplemental first aid instructions on this label) on occurs: Get medical advice/attention	breathing s. Remove contact
		on persists: Get medical advice/attention	
08/08/2017		on persists: Get medical advice/attention taminated clothing and wash it before reuse SDS ID: 4854325	Page 1

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	P370+P378 - In case of fire: L P403+P233 - Store in a well-v P403+P235 - Store in a well-v P405 - Store locked up P501 - Dispose of contents/co	rentilated place. Keep contain rentilated place. Keep cool	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS L	JS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Fluoro-5-nitrobenzotrifluoride (Main constituent)	(CAS No) 400-74-8	<= 100	Flam. Liq. 4, H227 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			
4.1. Description of first aid measure	es		
First-aid measures general	: In case of accident or if you fe where possible). Move the aff		
First-aid measures after inhalation		Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.	
First-aid measures after skin contact	: Wash with plenty of soap and	water. Get medical advice/a	ttention.
First-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 medical advice/attention.	
First-aid measures after ingestion	: Do NOT induce vomiting. New mouth out with water. Get me		o an unconscious person. Rinse
4.2. Most important symptoms and	effects, both acute and delayed		
Symptoms/injuries	: The most important known sy 2.2) and/or in section 11.	mptoms and effects are desc	cribed in the labelling (see section
4.3. Indication of any immediate me	edical attention and special treatmen	t needed	
Treat symptomatically.			
SECTION 5: Firefighting measur	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbo appropriate for surrounding fir		r spray. Use extinguishing media
5.2. Special hazards arising from the	ne substance or mixture		
Fire hazard	: Thermal decomposition gener	ates: Carbon oxides. Hydrog	gen fluoride. Nitrogen oxides.
Explosion hazard	: When mixed with air and expo explode if confined. Risk of ex cooling exposed containers. M	plosion if heated under conf	inement. Use water spray or fog for
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area	. Fight fire remotely due to th	e risk of explosion.
Protection during firefighting	: Wear gas tight chemically pro apparatus. For further informa		on with self contained breathing osure controls/personal protection".
SECTION 6: Accidental release r	measures		
6.1. Personal precautions, protectiv	ve equipment and emergency proced	lures	
General measures	_	nnel. Ensure adequate air ve	ntilation. Do not breathe dust. Do not

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breathe gas, fumes, 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	: Avoid raising dust. Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containmer	nt and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. 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 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, including	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.
SECTION 8: Exposure controls/perso	nol protoction

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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 ch	nemical properties

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Melting point	: 22 - 24 °C	
рН	: No data available	
Odor threshold	: No data available	
Odor	: No data available	
Color	: No data available	
Appearance	: Low melting solid.	
Physical state	: Solid	
9.1. Information on basic	physical and chemical properties	
OLCTION 9. Thysical an	a chemical properties	

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Freezing point	: No data available
Boiling point	: 104 - 105 °C (@ 20 mm Hg)
Flash point	: 91 °C
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
Specific gravity / density	: 1.522 g/ml (@ 25 °C)
Molecular mass	: 209.10 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	
Refractive index	: 1.465 (@ 20 °C)
SECTION 10: Stability and reactivit	у
10.1. Reactivity	
No additional information available	

10.2. **Chemical stability**

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

Incompatible materials 10.5.

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 informat	ion		
11.1. Information on toxicological effects			
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		
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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 additional information available	
SECTION 13: Disposal consideration	S
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. Recycle the material of far as possible.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
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.
Other information	No supplementary information available.
TDG	
No additional information available	
Transport by sea	
A CONTRACTOR OF	

No additional information available

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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:

2-Fluoro-5-nitrobenzotrifluoride CAS No 400-74-8 100%	 	
	CAS No 400-74-8	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

2-Fluoro-5-nitrobenzotrifluoride (400-74-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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
	Flam. Liq. 4	Flammable liquids Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA	health hazard fire hazard reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur. : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
	II Rating	
Health	Health : 2 Moderate Hazard - Temporary or minor injury may occur	
Flamm	lammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambie temperatures before ignition will occur. Includes liquids having a flash point at or above 10 but below 200 F. (Classes II & IIIA)	
		: 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.