

3,4-Dimethylbenzotrifluoride Safety Data Sheet 1800334 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/13/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3,4-Dimethylbenzotrifluoride
CAS No	: 78164-31-5
Product code	: 1800-3-34
Formula	: C9H9F3
Other means of identification	: MFCD00079783
1.2. Relevant identified uses of the su	ibstance 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 safe	ty data 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.c 1.4. Emergency telephone number	
Emergency relephone number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	
2.1. Classification of the substance of	r mixture
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irr	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	imitation
Full text of H-phrases: see section 16 2.2. Label elements	Imitation
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	imitation
Full text of H-phrases: see section 16 2.2. Label elements	: GHS02 GHS07
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
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Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: $i \\ i \\$

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	lenses, if present and easy to do. Cont P312 - Call a POISON CENTER or do P321 - Specific treatment (see suppler P332+P313 - If skin irritation occurs: G P337+P313 - If eye irritation persists: C P362+P364 - Take off contaminated cl P370+P378 - In case of fire: Use dry s P403+P233 - Store in a well-ventilated P403+P235 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container t	ctor/physician if you the nental first aid instructed the et medical advice/athe Get medical advice/athe othing and wash it be and, dry chemical or place. Keep contain place. Keep cool	ctions on this label) tention ttention efore reuse alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	n on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
3,4-Dimethylbenzotrifluoride (Main constituent)	(CAS No) 78164-31-5	<= 100	Flam. Liq. 3, H226 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 measures			
First-aid measures general	: In case of accident or if you feel unwell where possible). Move the affected per	sonnel away from th	e contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep or respiration. Get medical advice/attention		ning. If not breatning, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. G		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with present and easy to do. Continue rinsin	ng. Get medical advi	ce/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get medical adv		an unconscious person. Rinse
4.2. Most important symptoms and effec			
Symptoms/injuries	: The most important known symptoms a 2.2) and/or in section 11.	and effects are desci	ribed in the labelling (see section
4.3. Indication of any immediate medical Treat symptomatically.	attention and special treatment needed	l	
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the sub	ostance or mixture		
Fire hazard	: Thermal decomposition generates: Ca		
Explosion hazard	: Risk of explosion if heated under confin containers. May form flammable/explose		
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Fight fire		
Protection during firefighting	: Wear gas tight chemically protective cl apparatus. For further information refer		

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment 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. 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 containment	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	: 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			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
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. Keep away from ignition sources.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: 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.

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SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	I 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	: 70 °C (@ 10 mm Hg)
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	: 174.163 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	: 1.442 (@ 20 °C)
SECTION 10: Stability and reactivit	hv -
10.1. Reactivity	· y
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	torage conditions.
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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
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects
No odd	itianal information qualitable

	No	additional	information	available
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SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods Waste disposal recommendations	Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.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) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1993 Flammable liquids, n.o.s., 3, III

- : UN1993
- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. 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). T4 - 2.65 178.274(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	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
All components of this product are listed, or ave	luded from listing, on the United States Environmental Protection Agency Taxia

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:

3,4-Dimethylbenzotrifluoride CAS No 78164-31-5	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

National regulations

No additional information available

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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:

I UII LEA	a or ri-prilases.	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 3	Flammable liquids Category 3
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H226	Flammable liquid and vapor
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA fire hazard : 2 - Must be moderately heated temperature before ignition can		: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
	II Rating	
Health : 2 Moderate Hazard - Ten		: 2 Moderate Hazard - Temporary or minor injury may occur
		 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physica	al	: 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.