

Safety Data Sheet 4854323 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/25/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4-Hydroxy-3-nitrobenzotrifl	ıoride	
CAS No	: 400-99-7		
Product code	: 4854-3-23		
Formula	: C7H4F3NO3		
Synonyms	: 4-(Trifluoromethyl)-2-nitrop	nenol	
Other means of identification	: MFCD00009791		
1.2. Relevant identified uses of the	substance or mixture and uses a	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
1.3. 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 - www.synquestlab	bs.com		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
STOT SE 3 H335 - May cause respirate Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling	•		
Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning : H227 - Combustible liquid		
Hazard statements (GHS-US)	H227 - Combustible liquid H315 - Causes skin irritatio H319 - Causes serious eye H335 - May cause respirate	irritation	
Precautionary statements (GHS-US)	P261 - Avoid breathing fum P264 - Wash skin thorough P271 - Use only outdoors of P280 - Wear protective glo P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEN P321 - Specific treatment (P332+P313 - If skin irritatio P337+P313 - If eye irritatio	ly after handling r in a well-ventilated area ves/protective clothing/eye protection/face protecti ish with plenty of soap and water move person to fresh air and keep comfortable for es: Rinse cautiously with water for several minute	r breathing s. Remove contac
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	P370+P378 - In case of fire: Use di P403+P233 - Store in a well-ventila P403+P235 - Store in a well-ventila P405 - Store locked up P501 - Dispose of contents/contain	ted place. Keep container tightly o ted place. Keep cool	closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	S)		
Not applicable			
SECTION 3: Composition/information	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	% Class	sification (GHS-US)
4-Hydroxy-3-nitrobenzotrifluoride (Main constituent)	(CAS No) 400-99-7	Skin li Eye Ir	Liq. 4, H227 rrit. 2, H315 rit. 2A, H319 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	25		
First-aid measures general	: In case of accident or if you feel un where possible). Move the affected	personnel away from the contam	inated area.
First-aid measures after inhalation	respiration. Get medical advice/atte	: 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 wate		–
First-aid measures after eye contact	present and easy to do. Continue ri	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. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.	
4.2. Most important symptoms and e			
Symptoms/injuries	: The most important known sympton 2.2) and/or in section 11.	ns and effects are described in th	e labelling (see section
4.3. Indication of any immediate met Treat symptomatically.	dical attention and special treatment nee	ded	
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	ide. Dry powder. Water spray. Us	e extinguishing media
5.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Thermal decomposition generates:	Carbon oxides. Hydrogen fluoride	e. Nitrogen oxides.
Explosion hazard	: Risk of explosion if heated under co containers. May form flammable/ex		g for cooling exposed
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. Figh	t fire remotely due to the risk of ex	plosion.
Protection during firefighting	: Wear gas tight chemically protectiv apparatus. For further information r		
SECTION 6: Accidental release m			
	e equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. vapor or spray.	Ensure adequate air ventilation. D	o not breathe gas, fumes,
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped	with suitable protective equipment	t may intervene.
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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 or ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify a	authorities if product enters sewers or public waters.
6.3. Methods and material for con	tainment 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 stora	ade
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, i	ncluding any incompatibilities
7.2. Conditions for safe storage, i Technical measures	ncluding any incompatibilities : Comply with applicable regulations.
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Technical measures	: Comply with applicable regulations.

SECTI	ION 8: Exposure controls/personal protection
8.1.	Control parameters
No addi	tional 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 physical and 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	

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Boiling point		:	92 - 94 °C
Flash point		:	95 °C
Relative evaporation ra	te (butyl acetate=1)	:	No data available
Flammability (solid, gas	5)	:	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 / densit	у	:	1.473 g/ml (@ 20 °C)
Molecular mass		:	207.11 g/mol
Solubility		:	No data available
Log Pow		:	No data available
Auto-ignition temperatu	ire	:	No data available
Decomposition tempera	ature	:	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

SECTION 10: Stability and reactivity			
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.			
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	: 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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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 add	itional information available

SECTION 12, Dispession apprinteration	
SECTION 13: Disposal consideration	5
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	 Bispose of contents contained in accordance with incensed conector's sorting instructions. 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)	: 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.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea No additional information available	

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

4-Hydroxy-3-nitrobenzotrifluoride (400-99-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

4-Hydroxy-3-nitrobenzotrifluoride (400-99-7)
Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

4-Hydroxy-3-nitrobenzotrifluoride (400-99-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

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		: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard		: 2 - Must be moderately heated or exposed to relatively high temperature 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		: 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)
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)		

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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.