

Safety Data Sheet 4754325 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/22/2017 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Product form	: Substance
Substance name	: 2-Fluoro-5-nitrotoluene
CAS No	: 455-88-9
Product code	: 4754-3-25
Formula	: C7H6FNO2
Synonyms	: 1-Fluoro-2-methyl-4-nitrobenzene
Other means of identification	: MFCD00007284
1.2. Relevant identified uses of the su Use of the substance/mixture	ubstance 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	ety 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. 1.4. Emergency telephone number	<u></u>
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
	. (0++) 020 +000 (0E 0011pully /1000011 10000)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	or mixture
Classification (GHS-US)	
Acute Tox. 4 (Inhalation)H332 - Harmful iSkin Irrit. 2H315 - Causes sEye Irrit. 2AH319 - Causes sSTOT SE 3H335 - May cause	in contact with skin if inhaled
Full text of H-phrases: see section 16 2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 Warning H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
9 ( )	<ul> <li>Warning</li> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation</li> </ul>

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ccording to Federal Register / Vol. 77, No. 58 / Monday, M	P332 P337 P362 P403 P405	<ul> <li>Rinse mouth</li> <li>+P313 - If skin irritation occurs: Get med</li> <li>+P313 - If eye irritation persists: Get med</li> <li>+P364 - Take off contaminated clothing a</li> <li>+P233 - Store in a well-ventilated place.</li> <li>Store locked up</li> <li>Dispose of contents/container to an ap</li> </ul>	lical advice/atte and wash it befo Keep container	ntion ore reuse tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Fluoro-5-nitrotoluene (Main constituent)		(CAS No) 455-88-9	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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				
C C	where	se of accident or if you feel unwell, seek is possible). Move the affected personnel	away from the	contaminated area.
First-aid measures after inhalation	respii	ove person to fresh air and keep comforta ration. Get immediate medical advice/atte	ention.	
		with plenty of soap and water. Get imme		
	prese	ediately flush eyes thoroughly with water i ent and easy to do. Continue rinsing. Get	immediate med	lical advice/attention.
First-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2. Most important symptoms and effects		•		
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical a	attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the subs	stance	or mixture		
Fire hazard :	: Therr	nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing i ratus. For further information refer to sec		
SECTION 6: Accidental release measu	ure <u>s</u>			
6.1. Personal precautions, protective equi		and emergency procedures		
		uate unnecessary personnel. Ensure ade		

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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".
6.2. Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3.	Methods and material for contain	nment and cleaning up
For con	tainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Method	s 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 in	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
NI	We want to Company Company of the bits	

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, incl	uding 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/personal protection

8.1. Control parameters

Flash point

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 physical and chemical properties Physical state : Solid Appearance : Low melting solid. Color : No data available Odor : No data available Odor threshold : No data available pН : No data available Melting point : 38 - 40 °C : No data available Freezing point Boiling point : 99.4 - 99.6 °C (@ 13 mm Hg)

: 105 °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	: 155.13 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						
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.						

SECTI	ON 11: Toxicological informati	ion
11.1.	Information on toxicological effects	
Acute to:	xicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Acute toxicity	•	Oral. namiul il swallowed. Dermai. namiul in contact with skin. Innalation. namiul il innaled.
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

SECTION 12: Ecologica	al information		
12.1. Toxicity			
No additional information availa	able		
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12.2.	Persistence and degradability			
No addi	tional information available			
12.3.	Bioaccumulative potential			
No addi	tional information available			
12.4.	Mobility in soil			
No addi	tional information available			
12.5.	Other adverse effects			
	tional information available			

<b>SECTION 13: Disposal considerat</b>	tions	
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 informati	on	

#### **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 information	
15.1. US Federal regulations	
2-Fluoro-5-nitrotoluene (455-88-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inver	tory

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

### 2-Fluoro-5-nitrotoluene (455-88-9)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### **EU-Regulations**

No additional information available

#### National regulations

#### 2-Fluoro-5-nitrotoluene (455-88-9)

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

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#### SECTION 16: Other information

Acute toxicity (dermal) Category 4 Acute toxicity (inhalation) Category 4 Acute toxicity (oral) Category 4 Serious eye damage/eye irritation Category 2A Skin corrosion/irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation	
Acute toxicity (oral) Category 4 Serious eye damage/eye irritation Category 2A Skin corrosion/irritation Category 2 Specific target organ toxicity (single exposure) Category 3 Harmful if swallowed Harmful in contact with skin Causes skin irritation	
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Harmful if swallowed Harmful in contact with skin Causes skin irritation	
Harmful in contact with skin Causes skin irritation	
Causes skin irritation	
Causes serious eve irritation	
Harmful if inhaled	
May cause respiratory irritation	
<ul> <li>residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>	
: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
<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>	
als that are normally stable, even under fire conditions, and will NOT e, decompose, condense, or self-react. Non-Explosives.	
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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.