

Safety Data Sheet 4754305 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/08/2019 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 1,3-Difluoro-2-methyl-4-nitrobenzene	
CAS No	: 79562-49-5	
Product code	: 4754-3-05	
Formula	: C7H5F2NO2	
Other means of identification	: MFCD11519030	
1.2. Relevant identified uses of the subst	ance 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 safety of	lata 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.com	1	
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or m	ixture	
Classification (GHS-US)		
Acute Tox. 4 (Oral)H302 - Harmful if swallowedAcute Tox. 4 (Dermal)H312 - Harmful in contact with skinAcute Tox. 3 (Inhalation)H331 - Toxic if inhaledSkin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritationSTOT SE 3H335 - May cause respiratory irritation		
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS06 GHS07	
Signal word (GHS-US)		
Hazard statements (GHS-US)	 Danger H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H331 - Toxic if inhaled H335 - May cause respiratory irritation 	
Precautionary statements (GHS-US)	 P261 - Avoid breathing mist, fumes, dust, spray, vapors P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P311 - Call a POISON CENTER or doctor/physician if you feel unwell 	
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	P321 - Specific treatment (see supple P330 - Rinse mouth P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists: P362+P364 - Take off contaminated P403+P233 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container	Get medical advice/atte Get medical advice/att clothing and wash it be d place. Keep containe	ention tention fore reuse er tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance	· · · · · · · · · · · · · · · · · · ·		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1,3-Difluoro-2-methyl-4-nitrobenzene (Main constituent)	(CAS No) 79562-49-5	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 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	: In case of accident or if you feel unwe where possible). Move the affected p	ersonnel away from the	e contaminated area.
	: Remove person to fresh air and keep respiration. Get immediate medical a	dvice/attention.	
	 Wash with plenty of soap and water. Immediately flush eyes thoroughly with 		
·	 Infinite date in the set of the	sing. Get immediate me	edical advice/attention.
	mouth out with water. Get immediate		
4.2. Most important symptoms and effects			
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	s and effects are descri	bed in the labelling (see section
4.3. Indication of any immediate medical a	attention and special treatment neede	ed	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.	le. Dry powder. Water s	spray. Use extinguishing media
5.2. Special hazards arising from the subs			
Fire hazard	: Thermal decomposition generates: C	arbon oxides. Hydroge	n fluoride. Nitrogen oxides.
5.3. Advice for firefighters			
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Wear gas tight chemically protective of apparatus. For further information ref. 		
SECTION 6: Accidental release measure	ures		
6.1. Personal precautions, protective equ			
	 Evacuate unnecessary personnel. En breathe gas, fumes, vapor or spray. 	nsure adequate air vent	ilation. Do not breathe dust. Do not

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6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
	/e 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 re	lease to the environment. Notify authorit	es if product enters sewers or public waters.
6.3.	Methods and material for containme	nt and cleaning up
For cont	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods	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	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addit	ional information available	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons 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	ng any incompatibilities
Technica	al measures	: Comply with applicable regulations.
Storage conditions :		: Keep container closed when not in use.
Incompa	atible 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.

SECT	TION 9: Physical a	and chemical properties
9.1.		sic physical and chemical properties
Physic	al state	: Solid
Appea	irance	: Low melting solid.
Color		: No data available
Odor		: No data available
Odor th	hreshold	: No data available
pН		: No data available
Melting	g point	: 35 - 38 °C
Freezir	ng point	: No data available
Boiling	g point	: No data available
Flash p	point	: No data available

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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	: 173.1169 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

No additional information available			
SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No addi	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 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	
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11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled.

1,3-Difluoro-2-methyl-4-nitrobenzene (79562-49-5)		
ATE US (oral)	500.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases)	700.000 ppmV/4h	
ATE US (vapors)	3.000 mg/l/4h	
ATE US (dust, mist)	0.500 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.	

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Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information			
12.1.	Toxicity		
No additional information available			
2.2.	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 considerations			
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.		

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

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)

- : UN2811
- : Toxic solids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison لين

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name

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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 (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group III or T7 for solid substances of packing pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction T93. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg
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.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2811
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2811
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
All components of this product are listed, or exc	luded from listing, on the United States Environmental Protection Agency Toxic

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

1,3-Difluoro-2-methyl-4-nitrobenzene CAS No 79562	49-5 100%

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 No additional information available

15.3. US State regulations

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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	of H-phrases:	
	Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
1	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
1	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
1	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
ę	Skin Irrit. 2	Skin corrosion/irritation Category 2
ę	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
I	H302	Harmful if swallowed
I	H312	Harmful in contact with skin
I	H315	Causes skin irritation
I	H319	Causes serious eye irritation
I	H331	Toxic if inhaled
I	H335	May cause respiratory irritation
NFPA he		 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III	Rating	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammab	bility	: 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)
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)

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.