

Safety Data Sheet 4H30324 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/18/2017 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: 4-Amino-2,2-difluorobenzodioxole
CAS No	: 106876-54-4
Product code	: 4H30-3-24
Formula	: C7H5F2NO2
Synonyms	: 2,2-Difluoro-2H-1,3-benzodioxol-4-amine
Other means of identification	: MFCD00792416
1.2. Relevant identified use	es of the substance 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 data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States T (386) 462-0788 - F (386) 462-70 <u>info@synquestlabs.com</u> - <u>www.syr</u>)97
1.4. Emergency telephone	number
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) ide	ntification
2.1. Classification of the su	
Classification (GHS-US)	
Acute Tox. 4 (Inhalation) H332 - Skin Irrit. 2 H315 - Eye Irrit. 2A H319 - STOT SE 3 H335 -	 Harmful in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause respiratory irritation
Full text of m-prinases: see section	
Full text of H-phrases: see section 2.2. Label elements GHS-US labeling	
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	P321 - Specific treatment (see supplem P330 - Rinse mouth P332+P313 - If skin irritation occurs: Ge P337+P313 - If eye irritation persists: G P362+P364 - Take off contaminated clo P403+P233 - Store in a well-ventilated p P405 - Store locked up P501 - Dispose of contents/container to	et medical advice/atte et medical advice/atte thing and wash it befi place. Keep container	ntion ention 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 ingredients		
3.1. Substance			
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
4-Amino-2,2-difluorobenzodioxole (Main constituent)	(CAS No) 106876-54-4	<= 100	Acute Tox. 3 (Oral), H301 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			
First-aid measures general :	In case of accident or if you feel unwell, where possible). Move the affected personal sector of the		
First-aid measures after inhalation :	Remove person to fresh air and keep correspiration. Get immediate medical advi		ng. If not breathing, give artificial
First-aid measures after skin contact :	Wash with plenty of soap and water. Ge	et immediate medical	advice/attention.
	Immediately flush eyes thoroughly with present and easy to do. Continue rinsing	g. Get immediate med	dical 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 immediate medical advice/attention.		
4.2. Most important symptoms and effects,	both acute and delayed		
Symptoms/injuries :	The most important known symptoms a 2.2) and/or in section 11.	nd effects are describ	ed in the labelling (see section
4.3. Indication of any immediate medical at	tention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	Alcohol resistant foam. Carbon dioxide. appropriate for surrounding fire.	Dry powder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the subst			
	Thermal decomposition generates: Carl	oon oxides. Hvdrogen	fluoride. Nitrogen oxides.
	Risk of explosion if heated under confin containers.	, ,	Ŭ
5.3. Advice for firefighters			
5.3. Advice for firefighters Firefighting instructions :	In case of fire: Evacuate area. Fight fire	remotely due to the r	isk of explosion.

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SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emerge	iency procedures
	essary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel	
Emergency procedures : Only qualified p	ersonnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
	o take action without suitable protective equipment. For further information 3: "Exposure controls/personal protection".
Emergency procedures : Gas/vapor heav level.	ier than air. May accumulate in confined spaces, particularly at or below ground
6.2. Environmental precautions	
Avoid release to the environment. Notify authorities if product enters	sewers or public waters.
6.3. Methods and material for containment and cleaning up	
For containment : Stop leak if safe	to do so. Dike for recovery or absorb with appropriate material.
explosion-proof	bills with pump or vacuum and finish with dry chemical absorbent. Use equipment. Take up small spills with dry chemical absorbent. Sweep or shovel priate container for disposal. Ventilate area.
Other information : For disposal of s	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	
ventilation of the	ntil all safety precautions have been read and understood. Ensure good work station. Do not breathe fumes, mist, spray, vapors. Wear personal ment. Avoid contact with skin and eyes.
	dance with good industrial hygiene and safety procedures. Do not eat, drink or ng this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any incompatible	lities
Technical measures : Comply with ap	blicable regulations.
Storage conditions : Keep container	closed when not in use.
Incompatible materials : Refer to Section	10 on Incompatible Materials.
	L well vertileted erec
Storage area : Store in dry, coo	ii, weii-ventilated area.
Storage area : Store in dry, coordinate Store in dry, coordinate Store in dry, coordinate Store	

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	d chemical properties
9.1. Information on basic	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		
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Melting point	: No data available
Freezing point	: No data available
Boiling point	: 84 - 86 °C (@ 16 mm Hg)
Flash point	: 75 °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
Molecular mass	: 173.12 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	: 1.4995 (@ 21 °C)
SECTION 10: Stability and reactivit	v
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and st	torage 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 produc	
Under normal conditions of storage and use, ha fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informa	ation
11.1. Information on toxicological effect	ts
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified

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

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Aspiration hazard : Not classified **SECTION 12: Ecological information** 12.1. Toxicity No additional information available Persistence and degradability 12.2. 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.	
SECTION 14: Transport informat	ion	
Department of Transportation (DOT)		
In accordance with DOT		

: UN2810 Toxic, liquids, organic, n.o.s., 6.1, III

: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

: Toxic, liquids, organic, n.o.s.

: UN2810

: 6.1 - Poison

Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

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 : G - Identifies PSN requiring a technical name : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102) (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) T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous

material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. DOT Packaging Exceptions (49 CFR 173.xxx) : 153 DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

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DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

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:

	4-Amino-2,2-difluorobenzodioxole	CAS No 106876-54-4	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

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:

Acute toxicity (oral) Category 3
Acute toxicity (dermal) Category 4
Acute toxicity (inhalation) Category 4
Serious eye damage/eye irritation Category 2A
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Toxic if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 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
Flammability	: 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.