

2-(Difluoromethyl)-1H-benzimidazole Safety Data Sheet 3H32302 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/15/2016 Version: 1.0

SECTION 1: Identification	
.1. Identification	
Product form	: Substance
Substance name	: 2-(Difluoromethyl)-1H-benzimidazole
AS No	: 705-09-9
roduct code	: 3H32-3-02
ormula	: C8H6F2N2
synonyms	: 2-(Difluoromethyl)-1H-1,3-benzodiazole
Other means of identification	: MFCD00463015
.2. Relevant identified uses of the	substance or mixture and uses advised against
lse of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
.3. Details of the supplier of the sa	afety data sheet
ynQuest Laboratories, Inc.	
P.O. Box 309	
lachua, FL 32615 - United States of Amer	ica
(386) 462-0788 - F (386) 462-7097 fo@synguestlabs.com - www.synguestlab	ns com
4. Emergency telephone number	<u>oscom</u>
	· (0.44) E00 4000 (2E Company, Account 40000)
mergency number	: (844) 523-4086 (3E Company - Account 10069)
kin Irrit. 2 H315 - Causes skin irritatio ye Irrit. 2A H319 - Causes serious eye	irritation
kin Irrit. 2 H315 - Causes skin irritatio ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirato full text of H-phrases: see section 16	irritation
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards						
No additional information available						
2.4. Unknown acute toxicity (GHS US)						
Not applicable						
SECTION 3: Composition/information	SECTION 3: Composition/information on ingredients					
3.1. Substance						
Substance type :	Mono	-constituent				
Name		Product identifier	%	Classification (GHS-US)		
2-(Difluoromethyl)-1H-benzimidazole (Main constituent)		(CAS No) 705-09-9	<= 100	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 :		e of accident or if you feel unwell, seek i possible). Move the affected personnel				
First-aid measures after inhalation :		ove person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial		
First-aid measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.		
First-aid measures after eye contact :		diately flush eyes thoroughly with water t nt and easy to do. Continue rinsing. Get				
First-aid measures after ingestion :				unconscious person. Rinse		
4.2. Most important symptoms and effects, both acute and delayed						
Symptoms/injuries :		The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.				
4.3. Indication of any immediate medical at	tentio	n and special treatment needed				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media		
5.2. Special hazards arising from the subst	tance o	or mixture				
Fire hazard :	Thern	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 : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".						
SECTION 6: Accidental release measu	res					
6.1. Personal precautions, protective equip	oment	and emergency procedures				
General measures :	Evacu	uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.		
6.1.1. For non-emergency personnel						
	Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.		
6.1.2. For emergency responders Protective equipment :		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information		
6.2. Environmental precautions						

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

Safety Data Sheet

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

6.3. Methods and material for	containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other section	IS
No additional information available	
SECTION 7: Handling and st	orage
7.1. Precautions for safe hand	ling
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, mist, spray. 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.

		shoke when using this product. Always wash hands alter handling the product.
7.2.	Conditions for safe storage, includi	ng any incompatibilities
Technic	cal measures	: Comply with applicable regulations.
Storage	e conditions	: Keep container closed when not in use.
Incomp	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	e 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.

SECTION 9: Physical and chemical properties

9	9.1. Information on basic physical a	nd chemical properties	
F	Physical state	: Solid	
(Color	: No data available	
(Odor	: No data available	
(Odor threshold	: No data available	
F	DH	: No data available	
ľ	Melting point	: 155 - 157 °C	
F	Freezing point	: No data available	
E	Boiling point	: No data available	
F	Flash point	: No data available	
F	Relative evaporation rate (butyl acetate=1)	: No data available	
F	Flammability (solid, gas)	: No data available	
E	Explosion limits	: No data available	
E	Explosive properties	: No data available	
(Oxidizing properties	: No data available	
١	Vapor pressure	: No data available	
F	Relative density	: No data available	
F	Relative vapor density at 20 °C	: No data available	
ſ	Molecular mass	: 168.14 g/mol	

Safety Data Sheet

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

: No data available
: No data available

9.2. Other information

No additional information available

SECT	TION 10: Stability and reactivity	
10.1.	Reactivity	
No add	litional information available	
10.2.	Chemical stability	
The pro	oduct is stable at normal handling and storage	ge conditions.
10.3.	Possibility of hazardous reactions	
No add	litional information available	
10.4.	Conditions to avoid	
Keep a	away from heat, sparks and flame.	
10.5.	Incompatible materials	
Strong	oxidizing agents.	
10.6.	Hazardous decomposition products	
	normal conditions of storage and use, hazar e Section 5.	rdous decomposition products should not be produced. Hazardous decomposition products in case of
SECT	FION 11: Toxicological informatio	n
11.1.	Information on toxicological effects	
Acute to	toxicity :	Not classified
Skin co	orrosion/irritation	Causes skin irritation

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

SECT	ION 12: Ecological informati	on		
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			
12/08/20	016	EN (English US)	SDS ID: 3H32302	4/6

Safety Data Sheet

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

SECTION 13: Disposal considerat	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 information	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	tion
15.1. US Federal regulations	
All components of this product are listed, or Substances Control Act (TSCA) inventory e	r excluded from listing, on the United States Environmental Protection Agency Toxic except for:

2-(Difluoromethyl)-1H-benzimidazole CA	CAS No 705-09-9	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

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
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
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Safety Data Sheet

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

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
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	: 0 Minimal Hazard - Materials that will not burn
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.