

# **4-(Difluoromethyl)benzyl alcohol** Safety Data Sheet 2701333 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/08/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-(Difluoromethyl)benzyl alcohol
CAS No	: 444915-77-9
Product code	: 2701-3-33
Formula	: C8H8F2O
Synonyms	
, ,	: [4-(Difluoromethyl)phenyl]methanol; 4-(Hydroxymethyl)benzal fluoride
Other means of identification	: MFCD20488855
	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 saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	or mixture
Classification (GHS-US)	
	SKIN IFFICATION
Eye Irrit. 2AH319 - CausesSTOT SE 3H335 - May cau	skin irritation serious eye irritation use respiratory irritation
Eye Irrit. 2AH319 - CausesSTOT SE 3H335 - May cauFull text of H-phrases: see section 16	serious eye irritation
Eye Irrit. 2AH319 - CausesSTOT SE 3H335 - May cauFull text of H-phrases: see section 162.2.Label elements	serious eye irritation
Eye Irrit. 2A     H319 - Causes       STOT SE 3     H335 - May cau       Full text of H-phrases: see section 16       2.2.     Label elements       GHS-US labeling	serious eye irritation
Eye Irrit. 2A     H319 - Causes       STOT SE 3     H335 - May cau       Full text of H-phrases: see section 16       2.2.     Label elements       GHS-US labeling	serious eye irritation
Eye Irrit. 2AH319 - CausesSTOT SE 3H335 - May cauFull text of H-phrases: see section 16	serious eye irritation use respiratory irritation
Eye Irrit. 2A H319 - Causes STOT SE 3 H335 - May cau Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	serious eye irritation use respiratory irritation
Eye Irrit. 2A H319 - Causes STOT SE 3 H335 - May cau Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>serious eye irritation use respiratory irritation</li> <li>: i i i i i i i i i i i i i i i i i i</li></ul>

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	P337+P313 - If eye irrita P362+P364 - Take off co P403+P233 - Store in a P405 - Store locked up	ation occurs: Get medical advi- tion persists: Get medical adv ontaminated clothing and wasl well-ventilated place. Keep co nts/container to an approved w	rice/attention h it before reuse Intainer tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US	5)		
Not applicable			
SECTION 3: Composition/informa	tion on ingredients		
3.1. Substance	••		
Substance type	: Mono-constituent		
Name	Product identifie		Classification (GHS-US)
4-(Difluoromethyl)benzyl alcohol (Main constituent)	(CAS No) 444915-77	-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			
1.1. Description of first aid measures			
First-aid measures general		you feel unwell, seek medical and the second s	advice immediately (show the label
First-aid measures after inhalation	: Remove person to fresh		breathing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap	o and water. Get immediate m	edical advice/attention.
ïrst-aid measures after eye contact	present and easy to do.	Continue rinsing. Get immedia	
First-aid measures after ingestion		<ol> <li>Never give anything by mour et immediate medical advice/a</li> </ol>	th to an unconscious person. Rinse attention.
4.2. Most important symptoms and e	ffects, both acute and delayed	l	
Symptoms/injuries	: The most important know 2.2) and/or in section 11.		described in the labelling (see section
4.3. Indication of any immediate med	lical attention and special trea	tment needed	
Freat symptomatically.			
SECTION 5: Firefighting measure	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. C appropriate for surroundi		Vater spray. Use extinguishing media
5.2. Special hazards arising from the			
Fire hazard		generates: Carbon oxides. Hy	-
Explosion hazard	: Risk of explosion if heate containers.	ed under confinement. Use wa	ater spray or fog for cooling exposed
5.3. Advice for firefighters			
Firefighting instructions		area. Fight fire remotely due	•
Protection during firefighting			nation with self contained breathing Exposure controls/personal protection".
SECTION 6: Accidental release m			
6.1. Personal precautions, protective			
General measures	vapor or spray.	personnel. Ensure adequate ai	ir ventilation. Do not breathe gas, fumes,
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6.1.1.         For non-emergency personnel           Emergency procedures         : Only qualified personnel equipped with suitable protective equipment may interview.	
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.
6.2. Environmental precautions	

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

6.3. Methods and material for containm	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.		
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 storage			

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 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	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 & EV	posure controls/	norconal	protection
SLUTION U. LA	posure 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		
9.1. 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	
Boiling point	: No data available	

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Flash point	: No data available
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	: 158.15 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 add	itional information available
SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. Strong bases. Strong oxidizing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

### **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity	: Oral: Harmful 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
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 addi	tional information available
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
No addi	tional 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.	

#### **Department of Transportation (DOT)**

**SECTION 14: Transport information** 

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

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-(Difluoromethyl)benzyl alcohol CAS No 444915-77-9 100%		
	CAS NO 444915-77-9	

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

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#### **SECTION 16: Other information**

#### Full text of H-phrases:

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Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
PA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
PA fire hazard	: 1 - Must be preheated before ignition can occur.
PA reactivity	<ul> <li>1 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>3 0</li> <li>3 0</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>3 0</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>3 0</li> <li>4 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must be prefeated before ignition can occur.</li> <li>5 - Must before ignition can occur.</li> <li>5 -</li></ul>

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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.