

# 5-Chloro-2,4-difluorobenzylamine Safety Data Sheet 3730703 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1.1. Identification		
Product form	: Substance	
Substance name	: 5-Chloro-2,4-difluorobenzylamine	
CAS No	: 924818-16-6	
Product code	: 3730-7-03	
Formula	: C7H6CIF2N	
Synonyms	: (5-Chloro-2,4-difluorophenyl)methanamine	
Other means of identification	: MFCD08458696	
1.2. Relevant identified uses of the subs	stance 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 of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.co 1.4. Emergency telephone number	<u>m</u>	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
STOT SE 3 H335 - May cause respiratory	irritation	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	irritation	
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	irritation	
STOT SE 3       H335 - May cause respiratory         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)	: GHS05 GHS07	
STOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 162.2.Label elements		
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS05 GHS05 GHS07 : Danger : H314 - Causes severe skin burns and eye damage	d clothing. Rinse or breathing es. Remove contac

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	5)			
Not applicable				
SECTION 3: Composition/informa	tion on i	ngredients		
3.1. Substance				
Substance type	: Mor	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
5-Chloro-2,4-difluorobenzylamine (Main constituent)		(CAS No) 924818-16-6	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16		1		
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures	5			
First-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personnel		
First-aid measures after inhalation	: Ren	nove person to fresh air and keep comfort biration. Get immediate medical advice/atto	able for breathir	
First-aid measures after skin contact		sh with plenty of soap and water. Remove lical advice/attention.	contaminated c	lothing and shoes. Get immediate
First-aid measures after eye contact		: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion		<ul> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.</li> </ul>		
4.2. Most important symptoms and e	ffects, both	n acute and delayed		
Symptoms/injuries	: The	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
Symptoms/injuries after inhalation		: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		
4.3. Indication of any immediate med	lical attenti	on and special treatment needed		
Treat symptomatically.		· · · ·		
SECTION 5: Firefighting measure	•			
	5			
5.1. Extinguishing media Suitable extinguishing media	· Alec	ohol resistant foam. Carbon dioxide. Dry p	owder Water sr	ray Use extinguishing media
Suitable extinguishing media		ropriate for surrounding fire.	Jwder. Water sp	Jray. Use extinguishing media
5.2. Special hazards arising from the	substance	e or mixture		
Fire hazard		rmal decomposition generates: Carbon ox ogen oxides.	ides. Hydrogen	chloride. Hydrogen fluoride.
Explosion hazard		of explosion if heated under confinement tainers.	. Use water spra	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In ca	ase of fire: Evacuate area. Fight fire remo	ely due to the ri	sk of explosion.
Protection during firefighting		ar gas tight chemically protective clothing i aratus. For further information refer to sec		0
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipmen	t and emergency procedures		
General measures		cuate unnecessary personnel. Ensure ade or or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				

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 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 co	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			

	Tion 1. Handling and Storage		
7.1.	Precautions for safe handling		
Preca	utions 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.	
Hygie	ne 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, includir	ng any incompatibilities	
Techr	nical measures	: Comply with applicable regulations.	
Stora	ge conditions	: Keep container closed when not in use. Air sensitive. Keep contents under inert gas.	
Incom	patible materials	: Refer to Section 10 on Incompatible Materials.	
Storag	ge 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

9.1. Information on basic physical ar	d 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
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available

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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	: 177.58 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.

#### Possibility of hazardous reactions 10.3.

No additional information available

#### 10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

#### **Incompatible materials** 10.5.

Acids. Acid chlorides. Acid anhydrides. 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** 11.1. Information on toxicological effects

# Acute toxicity

### : Not classified

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	<ul> <li>Not classified</li> <li>Not classified</li> <li>May cause respiratory irritation.</li> <li>Not classified</li> </ul>
Aspiration hazard Symptoms/injuries after inhalation	<ul> <li>Not classified</li> <li>Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.</li> </ul>

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SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
No addit	
10.5	
12.5.	Other adverse effects
No addit	ional information available
No addit	ional 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 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)

- : UN2735 Amines, liquid, corrosive, n.o.s., 8, III
- : UN2735
- : Amines, liquid, corrosive, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



06/26/2017	EN (English US)	SDS ID: 3730703 5/7
DOT Vessel Stowage Location	: A - The material may be stowed ' passenger vessel.	on deck" or "under deck" on a cargo vessel and on a
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154	
DOT Special Provisions (49 CFR 172.102)	<ul> <li>C Hohmes For Vergening a technical name</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liqui with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tat 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>	
DOT Symbols	: G - Identifies PSN requiring a tec	
DOT Packaging Bulk (49 CFR 173.xxx)	: 241	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203	
Packing group (DOT)	: III - Minor Danger	

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DOT Vessel Stowage Other: 52 - Stow "separated from" acidsOther information: No supplementary information available.

# TDG

No additional information available

## Transport by sea

UN-No. (IMDG)	: 2735
Proper Shipping Name (IMDG)	: AMINES, LIQUID, CORROSIVE, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2735
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s.

Proper Shipping Name (IATA)	: Amines, liquid, cor
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

# **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:

5-Chloro-2,4-difluorobenzylamine	CAS No 924818-16-6	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:

	Eye Dam. 1	Serious eye damage/eye irritation Category 1
[	Skin Corr. 1B	Skin corrosion/irritation Category 1B
Í	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Í	H314	Causes severe skin burns and eye damage
[	H318	Causes serious eye damage
Í	H335	May cause respiratory irritation

: 3 - Short exposure could cause serious temporary or

NFPA health hazard	
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	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.	

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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	<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>
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.