

2,6-Difluorobenzylsulfonyl chloride Safety Data Sheet 7662704 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/03/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2,6-Difluorobenzylsulfonyl chloric	e	
CAS No	: 179524-60-8		
Product code	: 7662-7-04		
Formula	: C7H5CIF2O2S		
Synonyms	: (2,6-Difluorophenyl)methanesulf	onyl chloride	
Other means of identification	: MFCD11976096		
1.2. Relevant identified uses of the sub	stance or mixture and uses advised	against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and developm	ent	
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.com	<u>m</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - A	account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or I			
	Inxture		
Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swallor			
	kin burns and eye damage eye damage		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	 H302 - Harmful if swallowed H314 - Causes severe skin burns H335 - May cause respiratory irri 	, 0	
Precautionary statements (GHS-US)	P301+P312 - If swallowed: Call a P301+P330+P331 - If swallowed P303+P361+P353 - If on skin (or skin with water/shower P304+P340 - If inhaled: Remove P305+P351+P338 - If in eyes: Ri lenses, if present and easy to do P310 - Immediately call a POISC	r handling e when using this product well-ventilated area otective clothing/eye protection/face protecti POISON CENTER or doctor/ physician if ye rinse mouth. Do NOT induce vomiting hair): Take off immediately all contaminated person to fresh air and keep comfortable fo nse cautiously with water for several minute Continue rinsing	ou feel unwell d clothing. Rinse r breathing s. Remove contact
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	P403 P405	 Wash contaminated clothing before rea +P233 - Store in a well-ventilated place. Store locked up Dispose of contents/container to an ap 	Keep container		_
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTION 3: Composition/information	n on in	gredients			
3.1. Substance	. Mono	constituent			
Substance type	. 101010	-constituent		F	1
Name		Product identifier	%	Classification (GHS-US)	
2,6-Difluorobenzylsulfonyl chloride (Main constituent)		(CAS No) 179524-60-8	<= 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 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		se of accident or if you feel unwell, seek it e possible). Move the affected personnel			
First-aid measures after inhalation		ove person to fresh air and keep comforta ation. Get immediate medical advice/atte		g. If not breathing, give artificial	
First-aid measures after skin contact	First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.				
First-aid measures after eye contact	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	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 effect	4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section	
Symptoms/injuries after inhalation		ial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,	
4.3. Indication of any immediate medical	attentio	n and special treatment needed			
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable 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 sub	stance o	or mixture			
Fire hazard		nal decomposition generates: Carbon ox gen oxides. Sulfur oxides.	ides. Hydrogen	chloride. Hydrogen fluoride.	
Reactivity		ts with water, generates gases or heat. R se highly explosive/flammable hydrogen		ure to water with some metals to	
5.3. Advice for firefighters					
Firefighting instructions	: In cas	se of fire: Evacuate area.			
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sect			

SECTION 6: Accidental release measures			
6.1.	6.1. Personal precautions, protective equipment and emergency procedures		
General	measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.	

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6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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".
6.2. Environmental precautions	
Avoid release to the environment. Notify au	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	ainment 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 sections	
No additional information available	
SECTION 7: Handling and storage	ge
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 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.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storago area	· Store in dry, and well ventilated area

: Store in dry, cool, well-ventilated area. Storage area

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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 ba	asic physical and chemical properties
Physical state	: Solid
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 (bu	tyl acetate=1) : No data available
Flammability (solid, gas)	: No data available

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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	: 226.63 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

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

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 acids. Strong bases. 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

: Oral: Harmful if swallowed.

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

SECTIO	ON 12: Ecological information
12.1.	Toxicity
No additio	onal information available

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12.2.	Persistence and degradability
No addit	tional information available
12.3.	Bioaccumulative potential
No addit	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addit	tional information available

13.1. Waste treatment methods		
Waste treatment methods Waste disposal recommendations Additional information		ipped with an afterburner and a flue gas scrubber. Ince with licensed collector's sorting instructions.
SECTION 14: Transport information		
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3261 Corrosive solid, acidic, organic,	nos 8 III
	-	
UN-No.(DOT)	: UN3261	
Proper Shipping Name (DOT) Transport hazard class(es) (DOT)	 Corrosive solid, acidic, organic, n.o.s. 8 - Class 8 - Corrosive material 49 CFR ² 	173 136
Hazard labels (DOT)	: 8 - Corrosive	110.100
	8	
Packing group (DOT)	: III - Minor Danger	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213	
DOT Packaging Bulk (49 CFR 173.xxx)	: 240	
DOT Symbols	: G - Identifies PSN requiring a technical n	
DOT Special Provisions (49 CFR 172.102)	plastics (11H1, 11H2, 21H1, 21H2, 31H1 21HZ2, 31HZ1 and 31HZ2); Fiberboard (13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13 IP3 - Flexible IBCs must be sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal	d water-resistant or must be fitted with a sift-proof and
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg	
DOT Vessel Stowage Location	: A - The material may be stowed "on decl passenger vessel.	k" or "under deck" on a cargo vessel and on a
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 Other information
 : No supplementary information available.

 TDG

 No additional information available

 Transport by sea

 UN-No. (IMDG)
 : 3261

 Proper Shipping Name (IMDG)
 : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

 Class (IMDG)
 : 8 - Corrosive substances

 Packing group (IMDG)
 : 1II - substances presenting low danger

Air transport

Air transport	
UN-No. (IATA)	: 3261
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.
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:

2,6-Difluorobenzylsulfonyl chloride

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.

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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 Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

100%

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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	: 0 - Materials that will not burn.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.