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2,6-Difluorobenzyl chloride Safety Data Sheet 1700708 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/16/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
	. Cubatanaa		
Product form	: Substance		
Substance name	: 2,6-Difluorobenzyl chloride		
CAS No	: 697-73-4		
Product code	: 1700-7-08		
Formula	: C7H5CIF2		
Synonyms	: 2-(Chloromethyl)-1,3-difluo	robenzene	
Other means of identification	: MFCD00191346		
1.2. Relevant identified uses of	of the substance or mixture and uses ad	lvised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
1.3. Details of the supplier of	the safety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synqu			
1.4. Emergency telephone nu	mber		
Emergency number	: (844) 523-4086 (3E Compa	iny - Account 10069)	
SECTION 2: Hazard(s) ident 2.1. Classification of the subs Classification (GHS-US)			
	H290 - May be corrosive to metals		
	H302 - Harmful if swallowed		
Acute Tox. 4 (Inhalation:dust,mist)	H332 - Harmful if inhaled		
	H314 - Causes severe skin burns and ey	e damage	
	H318 - Causes serious eye damage H335 - May cause respiratory irritation		
Full text of H-phrases: see section 16	, , ,		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H290 - May be corrosive to H302+H332 - Harmful if sv H314 - Causes severe skin H335 - May cause respirate	vallowed or if inhaled burns and eye damage	
Precautionary statements (GHS-US)	P264 - Wash skin thorough P270 - Do not eat, drink or P271 - Use only outdoors of P280 - Wear protective glo P301+P312 - If swallowed: P301+P330+P331 - If swall P303+P361+P353 - If on s skin with water/shower P304+P340 - If inhaled: Re	/fume/gas/mist/vapors/spray Ily after handling smoke when using this product	an if you feel unwell g inated clothing. Rinse ble for breathing
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	P310 - P321 - 3 P330 - P363 - \ P390 - 7 P403+F P405 - 3 P406 - 3	if present and easy to do. Continue mmediately call a POISON CENTEI Specific treatment (see supplementa Rinse mouth Wash contaminated clothing before Absorb spillage to prevent material c 2233 - Store in a well-ventilated place Store locked up Store locked up Store in corrosive resistant containen Dispose of contents/container to an	R or doctor/ physi al first aid instructi reuse lamage e. Keep container r with a resistant i	ons on this label) ^r tightly closed nner liner
2.3. Other hazards Other hazards not contributing to the classification	: Lachryn	nator.		
2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
SECTION 3: Composition/inform	ation on ing	edients		
3.1. Substance				
Substance type	: Mono-c	onstituent		
Name		Product identifier	%	Classification (GHS-US)
2,6-Difluorobenzyl chloride (Main constituent)		CAS No) 697-73-4	<= 100	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1C, 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 measure	es			
First-aid measures general	where p	of accident or if you feel unwell, see ossible). Move the affected personn	el away from the	contaminated area.
First-aid measures after inhalation	respirat	e person to fresh air and keep comfo ion. Get immediate medical advice/a	attention.	
First-aid measures after skin contact	medical	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.		
First-aid measures after eye contact	present	ately flush eyes thoroughly with wate and easy to do. Continue rinsing. G - induce vomiting. Never give anythi	et immediate med	dical advice/attention.
First-aid measures after ingestion	mouth c	out with water. Get immediate medic		
4.2. Most important symptoms and			((and the data set of the set of the set
Symptoms/injuries	2.2) and	st important known symptoms and e d/or in section 11.		
Symptoms/injuries after inhalation	shortne	l is destructive to tissue of the mucu ss of breath, headache, nausea.	ous membranes a	and upper respiratory tract. Cough,
4.3. Indication of any immediate me Treat symptomatically.	edical attention a	and special treatment needed		
SECTION 5: Firefighting measure	es			
5.1. Extinguishing media Suitable extinguishing media		resistant foam. Carbon dioxide. Dry iate for surrounding fire.	powder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from th	e substance or	mixture		
Fire hazard		I decomposition generates: Carbon	oxides. Hydrogen	n chloride. Hydrogen fluoride.
5.3. Advice for firefighters				
Firefighting instructions Protection during firefighting	: Wear g	of fire: Evacuate area. as tight chemically protective clothing us. For further information refer to se		
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SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
General measures :	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not breathe gas, fumes, vapor or spray.				
6.1.1. For non-emergency personnel					
	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 authorities	if product enters sewers or public waters.				
6.3. Methods and material for containment	and cleaning up				
	Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.				
Methods for cleaning up :	Minimize generation of dust. 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					
	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal				
Hygiene measures :	protective equipment. Avoid contact with skin and eyes. 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.				
-	Refer to Section 10 on Incompatible Materials.				
Storage 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.				
	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 pro	operties				
9.1. Information on basic physical and chemical properties					
Physical state : Solid					
Appearance :	Low melting solid.				
Color :	No data available				
Odor :	No data available				
Odor threshold :	No data available				

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рН	:	No data available
Melting point	:	32 - 35 °C
Freezing point	:	No data available
Boiling point	:	76 °C (@ 22 mm Hg)
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	:	162.564 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

Other information 9.2.

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.				
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 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

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

2,6-Difluorobenzyl chloride (697-73-4)		
ATE US (oral)	500.000 mg/kg body weight	
ATE US (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	

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Specific target organ toxicity (single exposure)	: 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. Cou shortness of breath, headache, nausea.	ugh,

SECTION 12: Ecological information					
12.1. Toxicity					
No additional information available					
12.2. Persistence and degradability					
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 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)

Packing group (DOT)

- : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, II
- : UN3261
- : Corrosive solid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : II Medium Danger
- : 212
- : 240
- : G Identifies PSN requiring a technical name
- DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

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DOT Special Provisions (49 CFR 172.102)	:	 IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	50 kg
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	:	3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. 8 - Corrosive substances II - substances presenting medium danger
Air transport		
UN-No. (IATA)	:	3261
Proper Shipping Name (IATA)	:	Corrosive solid, acidic, organic, n.o.s.
Class (IATA)	:	8 - Corrosives
Packing group (IATA)	:	II - Medium Danger
SECTION 15: Regulatory information	۱	

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-Difluorobenzyl chloride	CAS No 697-73-4	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

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2,6-Difluorobenz	vl chloride	(697-73-4)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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 (Inhalation:dust,mist)		Acute toxicity (inhalation:dust,mist) Category 4		
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4		
	Eye Dam. 1 Met. Corr. 1 Skin Corr. 1C		Serious eye damage/eye irritation Category 1 Corrosive to metals Category 1 Skin corrosion/irritation Category 1C		
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3		
	H290		May be corrosive to metals		
	H302		Harmful if swallowed		
	H314		Causes severe skin burns and eye damage		
	H318		Causes serious eye damage		
	H332		Harmful if inhaled		
	H335		May cause respiratory irritation		
NFPA health hazard NFPA fire hazard NFPA reactivity		 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 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.