

2,3,4,5,6-Pentafluorobenzyl alcohol Safety Data Sheet 2601315 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/20/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2,3,4,5,6-Pentafluorobenzyl alcohol		
CAS No	: 440-60-8		
Product code	: 2601-3-15		
Formula	: C7H3F5O		
Synonyms	: Pentafluorophenylmethanol		
Other means of identification	: MFCD00004602		
1.2. Relevant identified uses of the	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 sa	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	rica		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause re	i irritation ous eye irritation		
Full text of H-phrases: see section 16			
2.2. Label elements			
2.2. Label elements GHS-US labeling	· · ·		
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2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P302+P335 - If on skin: Wash with plenty of scap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove cor lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P314 - Call a POISON CENTER or doctor/phys		

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	P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,3,4,5,6-Pentafluorobenzyl alcohol (Main constituent)		(CAS No) 440-60-8	<= 100	Acute Tox. 4 (Oral), H302 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		se of accident or if you feel unwell, seek repossible). Move the affected personnel		
First-aid measures after inhalation	er inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
First-aid measures after skin contact	: Wash	with plenty of soap and water. Get imme	ediate medical a	advice/attention.
rst-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		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2. Most important symptoms and effect	s, both	acute and delayed		
Symptoms/injuries				
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	Alcoh	ol resistant foam. Carbon dioxide. Dry po	wder. Water sr	prav. Use extinguishing media
		ppriate for surrounding fire.		
5.2. Special hazards arising from the sub	stance	or mixture		
Fire hazard				
xplosion hazard : Thermal decomposition generates. Carbon oxides. Hydrogen nuclide. xplosion hazard : When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.				
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.			
Protection during firefighting	ction 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 meas 6.1. Personal precautions, protective equ		and americancy procedures		

General measures

breathe gas, fumes, vapor or spray.

: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not

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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".
Emergency procedures	: Avoid raising dust. Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify auth	norities if product enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
For containment	: 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	9
7.1. Precautions for safe handling	
Additional hazards when processed	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Handle empty containers with care because residual vapors are flammable.
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, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
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, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: 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. Expo	sure controls	
Appropriate eng	gineering 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	n :	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 p	protection :	Wear suitable protective clothing.
Respiratory prot	tection :	In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	on :	Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9:	Physical and chemical pro	operties
9.1. Inform	mation on basic physical and che	emical properties
Physical state	:	Solid
Appearance	:	Low melting solid.

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	Odor threshold	:	No data available
	рН	:	No data available
	Melting point	:	37 - 38.5 °C
	Freezing point	:	No data available
	Boiling point	:	180 - 182 °C
	Flash point	:	87 °C
	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	:	198.0901 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

SECT	ION 10: Stability and reactivity			
10.1.	Reactivity			
No additional information available				
10.2.	Chemical stability			
The pro	duct is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No additional information available				
10.4.	Conditions to avoid			
Keep av	way from heat, sparks and flame.			
10.5.	Incompatible materials			
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.

2,3,4,5,6-Pentafluorobenzyl alcohol (440-60-8)		
LD50 oral rat	900 mg/kg	
ATE US (oral)	900.000 mg/kg body weight	
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	

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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	
SECTION 12: Ecological information	h de la companya de l	
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 informat	ion			

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 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:

2,3,4,5,6-Pentafluorobenzyl alcohol	CAS No 440-60-8	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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National regulations

2,3,4,5,6-Pentafluorobenzyl alcohol (440-60-8)

Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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:
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	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
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
residual injury even thou given. NFPA fire hazard : 2 - Must be moderately h		given.	h prompt medical attention was Pated or exposed to relatively high
NFPA reactivity : 0 - Normally stable, even		· ·	under fire exposure conditions,
HMIS I	II Rating		
Health		: 3 Serious Hazard - Majo given	or injury likely unless prompt action is taken and medical treatment is
Flamm	Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includ solids and semi solids having a flash point above 200 F. (Class IIIB)		
Physica	hysical : 0 Minimal Hazard - Mat		rials that are normally stable, even under fire conditions, and will NOT ize, 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.