

4-(PROPIONYL)BENZENEBORONIC ACID

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: 4-(PROPIONYL)BENZENEBORONIC ACID

CAS number: 186498-36-2

Product code: OR7254

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd Units 3 & 4 Parkway Denton Manchester M34 3SG UK Tel: 0161 337 9971 Fax: 0161 336 6932 Email: david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP:STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315Classification under CHIP:Xi: R36/37/38Most important adverse effects:Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:	
Hazard statements:	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
Signal words:	Warning
Hazard pictograms:	GHS07: Exclamation mark



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Precautionary statements: P261: Avoid breathing dust.

P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor//if you feel unwell.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 4-(PROPIONYL)BENZENEBORONIC ACID

CAS number: 186498-36-2

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a

doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Borane/boron oxides.

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Page: 3 5.3. Advice for fire-fighters Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust. 6.2. Environmental precautions Environmental precautions: Do not discharge into drains or rivers. 6.3. Methods and material for containment and cleaning up Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. 6.4. Reference to other sections Section 7: Handling and storage 7.1. Precautions for safe handling Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Air sensitive. Store under Argon. Recommended storage temp 2-8 °C. Suitable packaging: Must only be kept in original packaging. 7.3. Specific end use(s) Specific end use(s): No data available. Section 8: Exposure controls/personal protection 8.1. Control parameters Workplace exposure limits: No data available. **DNEL/PNEC** Values DNEL / PNEC No data available.

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8.2. Exposure controls		
Engineering measures:	Ensure there is sufficient ventilation of the area.	
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Respiratory	
	protective device with particle filter.	
Hand protection:	Protective gloves.	
Eye protection:	Safety glasses. Ensure eye bath is to hand.	
Skin protection:	Protective clothing.	
Section 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
State:	Powder	
9.2. Other information		
Other information:	No data available.	
Section 10: Stability and reactivity		
10.1. Reactivity		
Reactivity:	Stable under recommended transport or storage conditions.	
10.2. Chemical stability		
Chemical stability:	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.	
10.4. Conditions to avoid		

Conditions to avoid: Heat. Air.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Boron Oxides

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data

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	Serious eye damage/irritation		OPT	Based on test data	
	STOT-single exposure		INH	Based on test data	
S	/mptoms / routes of exposure				
			be irritation and redness at th		
		-	be irritation and redness. The		
	-	gestion: There may be soreness and redness of the mouth and throat.			
	Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may				
•			ghing or wheezing.		
Sect	ion 12: Ecological informat	ion			
12	2.1. Toxicity				
	Ecotoxicity values:	No data av	ailable.		
12	2.2. Persistence and degradab	ility			
	ersistence and degradability:		ailabla		
12	2.3. Bioaccumulative potential				
	Bioaccumulative potential:	No data av	ailable.		
12	2.4. Mobility in soil				
	Mobility:	No data av	ailable.		
12	2.5. Results of PBT and vPvB a	assessment	t		
	PBT identification: This product is not identified as a PBT/vPvB substance.				
12	2.6. Other adverse effects				
	Other adverse effects:	No data av	ailable.		
Sect	ion 13: Disposal considera	tions			
19	3.1. Waste treatment methods				
	s.r. waste treatment methous				
	Disposal operations:			nge for collection by specialised disposal	
				POSED OF IN ACCORDANCE WITH LOCAL,	
			D FEDERAL REGULATIONS		
	Disposal of packaging:			ce with local and national regulations Observe	
			state and local environmenta	-	
	NB:	The user's	attention is drawn to the poss	ible existence of regional or national	
		regulations	regarding disposal.		
			regarding disposal.		

Section 14: Transport information

Transport class: This product does not require a classification for transport.

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Section 15: Regulatory information	tion			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
15.1. Salety, nearth and environ				
15.2. Chemical Safety Assessme	ent			
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture			
	by the supplier.			
Section 16: Other information				
Other information				
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.			
	* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by			
	decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?			
	c=TOXTREE			
	~ Data predicted using computational software ACD/ToxSuite v 2.95.1 Copyright 1994-			
	2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry			
	Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/			
Phrases used in s.2 and s.3:	H315: Causes skin irritation.			
	H319: Causes serious eye irritation.			
	H335: May cause respiratory irritation.			
	R36/37/38: Irritating to eyes, respiratory system and skin.			
Legend to abbreviations:	PNEC = predicted no effect level			
	DNEL = derived no effect level			
	LD50 = median lethal dose			
	LC50 = median lethal concentration			
	EC50 = median effective concentration			
	IC50 = median inhibitory concentration			
	dw = dry weight			
	bw = body weight			
	cc = closed cup			
	oc = open cup			
	MUS = mouse			
	GPG = guinea pig			
	RBT = rabbit			
	HAM = hamster			
	HMN = human			
	MAM = mammal			
	PGN = pigeon			
	IVN = intravenous			

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SCU = subcutaneous SKN = skin DRM = dermal

OCC = ocular/corneal

PCP = phycico-chemical properties

Legal disclaimer: The material is intended for research purposes only and should be handled exclusively by those who have been fully trained in safety, laboratory and chemical handling procedures. The above information is believed to be correct to the best of our knowledge. The above information is believed to be correct to the best of our knowledge at the date of its publication, but should not be considered to be all inclusive. It should be used only as a guide for safe handling, storage, transportation and disposal. We cannot guarantee that the hazards detailed in this document are the only hazards that exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

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