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Safety Data Sheet

1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product Identifiers Product Name: 2-Piperidin-1-ylpyridine-5-boronic acid, pinacol ester					
	Product Code: BM421 CAS-No.: 852228-08-1					
1.2	2-(piperidin-1-yl)-5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)pyridine					
1.3	Relevant identified uses of the substance or mixture and uses advised againstIdentified usesLaboratory chemicals, Manufacture of substances					
1.4	Details of the supplier of the safety data sheetCompanyBoron Molecular Pty LtdAddress500 Princes Hwy (PO Box 756),Noble Park, Vic, 3174Australia					
	Telephone Number +61 3 8558 8000 Emergency Telephone Number +1 703 527 3887 (Chemtrec) +61 413 777887, +61 412 191161 (Australia)					
2	HAZARDS IDENTIFICATION					
2.1	Classification of the substance or mixture					
	Not a dangerous good according to GHS					
2.2	Label elements					
	Pictogram					
	Signal word					
	Hazard statement(s)					
	Prevention					



Page 2 of 6 Produced according to GHS:2011(rev.4)

Issue Date: 9/03/2018

P301+P310	IF SWALLOWED Immediately call Poison Centre or Physician
P302+P352	IF ON SKIN: Immediately flush skin with plenty of soap and water.
P305+P338+P351	IF IN EYES: Immediately flush eyes with plenty of water for at
	least 20 minutes.
P333+P313	If skin irritation or rash occurs: Get medical advice
P337+P313	If eye irritation persists: Get medical advice
P363	Wash contaminated clothing before reuse

2.3 Other hazards - none

3 **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances

Synonyms

Formula

CAS Number

Concentration

2-(piperidin-1-yl)-5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl) pyridine C16H25BN2O2 Molecular weight 288.1950 amu 852228-08-1 ≥97%

FIRST AID MEASURES 4

4.1 Description of first aid measures

General Advice

Consult a Physician. Show this safety data sheet to the doctor in attendance.

Ingestion

If swallowed do not induce vomiting. If Victim is conscious, wash out mouth with copious amounts of water. Seek immediate medical assistance.

Eve

Immediately flush eyes with plenty of water for at least 20 minutes while holding eyelids open.

Skin

Immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Dispose of contaminated clothing and shoes in compliance with all local, state and federal laws and regulations.

Inhalation

Remove affected person to fresh air. If not breathing, give artificial respiration & seek immediate medical attention. If breathing is difficult, give oxygen.

Chronic

No specific information available on toxicity or the effects of overexposure

SEEK IMMEDIATE MEDICAL ASSISTANCE IN ALL CASES

- 4.2 Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- 4.3 Indication of any immediate medical attention and special treatment needed. No data available



5	FIRE FIGHTING MEASURES
5.1	Extinguishing media Suitable extinguishing media Foam / Carbon dioxide / Dry powder
5.2	Special hazards arising from the substance or mixture Not Determined – May include carbon monoxide, carbon dioxide, boron oxides, Nitrous Oxides &/or organic fumes.
5.3	Advise for firefighters Wear self contained breathing apparatus for fire fighting if necessary
5.4	Further information No data available
6	ACCIDENTAL RELEASE MEASURES
6.1	Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. For respiratory protection, wear a NIOSH/MSHA approved dust mask or self contained breathing apparatus.
6.2	Environmental precautions Do not let product enter drains.
6.3	Methods and materials for containment and cleaning up Pickup and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections For disposal see section 13.
7	HANDLING AND STORAGE
7.1	Precautions for safe handling Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapours or mist. Use only with adequate ventilation
7.2	Conditions for safe storage, including any incompatibilities Handle and store in a DRY closed system, preferably under DRY nitrogen. Storage conditions: Store ≤ 25°C
7.3	Specific end uses Apart from the uses mentioned in section 1.3, no other specific uses are stipulated.
8	EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1	Control parameters No data available

8.2 Exposure controls



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Personal protective equipment

Eye/face protection Safety glass with side shields

Skin protection

Handle with chemical resistant gloves. Gloves must be inspected before use.

Body protection Impervious clothing

Respiratory protection

When inhalation of vapor or mist is possible, wear a NIOSH/MSHA approved dust mask or self-contained breathing apparatus with full face-piece operated in positive-pressure mode.

Engineering controls

Eye wash and safety showers must be available and in good working order.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance (Color and Form)
- b) Odour
- **Odour Threshold** c)
- d) pН

9

- Melting Point e)
- **Boiling Point** f)
- Flashpoint g)
- Evaporation rate h)
- i) Flammability
- Upper/lower flammability or j) explosive limits
- k) Vapour Pressure
- I) Vapour density
- Relative density m)
- Water solubility n)
- partition coefficient: o)
- p) Autoignition temperature
- Decomposition temperature q)
- r) Viscosity
- s) Explosive properties
- t) Oxidizing properties

9.2 Other safety information No data available

Not Determined Not Determined Not Determined 109-113 Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

White to off-white solid

Not Determined Not Determined

10 STABILITY AND REACTIVITY

10.1 Reactivity

Not Determined.



10.2	Chemical stability Not Determined.							
10.3	Possibility of hazardous reactions Not Determined - Not expected to occur.							
0.4	Conditions to avoid Keep away from heat, sparks, and flame.							
10.5	Incompatible materials Strong Oxidisers							
10.6	Hazardous decomposition products Not Determined – May include carbon monoxide, carbon dioxide, boron oxides, Nitrous Oxides &/or organic fumes.							
11								
11.1	Information on toxicological effects							
12	 a) Acute toxicity b) Skin corrosion/irritation c) Serious eye damage d) Respiratory or skin sensitization e) Germ cell mutagenicity f) Carcinogenicity g) Reproductive toxicity h) Specific target organ toxicity – single exposure i) Specific target organ toxicity – repeated exposure j) Aspiration hazard ECOLOGICAL INFORMATION 12.1 Toxicity 12.2 Persistence 12.3 Bioaccumulative potential 12.4 Mobility in soil 12.5 Results of PBT and vPvB assessment 12.6 Other adverse effects 	Not Determined. Not Determined. Not Determined. Not Determined. Not Determined. Not Determined. Inhalation – May cause respiratory irritation. Not Determined. Not Determined.						
13	DISPOSAL CONSIDERATIONS							
13.1	Waste treatment methods Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state & local environmental regulations.							
14 14.1								
14.2	UN proper shipping name ADR/RID: Not a dangerous good							



Issue Date: 9/03/2018

ADR/RID: No IMDG: No IATA-DGR: No	1							
14.3 Transport hazard class(es) ADR/RID: IMDG: N/A IATA-DGR: N/A 14.4 Packaging groub ADR/RID: N/A IATA-DGR: N/A 14.4 Packaging groub ADR/RID: N/A IATA-DGR: N/A 14.5 Environmental hazard ADR/RID: No IATA-DGR: N/A 14.6 Special precautions for user Not Applicable No IATA-DGR: No 15 REGULATORY INFORMATION Safety, health and environment regulations/legislation specific for the substance or mixture Not Applicable. Safety, health and environment regulations/legislation specific for the substance or mixture Not Applicable. 16 OTHER INFORMATION Revision No. 8 Soloziame: Disclaime: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with resept to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Boron Molecular Pty Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising.		IMDG:	Not a dangero	ous good				
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THE END	The ir to us respe invest Boron	nformation abov . However, we ct to such inform igations to dete n Molecular Pty	make no warran mation, and we a ermine the suitat Ltd be liable for	ty of merchanta assume no liab bility of the infor any claims, los	ability or any of ility resulting fr mation for the ses, or damag	her warranty, express o om its use. Users should r particular purposes. In es of any third party or f	r implied, with d make their own no event shall	
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