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		NCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product Identifi Product Name:		zole-4-boronic acid, hydrochloride
Product Code: CAS-No.:	BM671 1026796-02-0	
1		
Relevant identified uses	fied uses of the su	ostance or mixture and uses advised against Laboratory chemicals, Manufacture of substances
Details of the su Company Address	upplier of the safet	y data sheet Boron Molecular Pty Ltd 500 Princes Hwy (PO Box 756), Noble Park, Vic, 3174 Australia
		+61 3 8558 8000 +1 703 527 3887 (Chemtrec) +61 413 777887, +61 412 191161 (Australia)
HAZARDS IDEN	ITIFICATION	
Classification o	of the substance or	mixture
Not a dangerous	s good according to	GHS
Label elements		
Pictogram		
Signal word		
Hazard statemer	nt(s)	
Prevention		
	Product Name: Product Code: CAS-No.: Relevant identia Identified uses Details of the set Company Address Details of the set Company Address Telephone Numb Emergency Tele HAZARDS IDEN Classification of Not a dangerous Label elements Pictogram Signal word Hazard statemen	Product Name: 1-Methyl-1H-pyra Product Code: BM671 CAS-No.: 1026796-02-0 Relevant identified uses of the sull Identified uses Details of the supplier of the safet Company Address Telephone Number Emergency Telephone Number HAZARDS IDENTIFICATION Classification of the substance or Not a dangerous good according to Label elements Pictogram Signal word Hazard statement(s)



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 Molecular weight	C4H8BCIN2O2 162.3800	amu
CAS Number	1026796-02-0 ≥95%	

4 FIRST AID MEASURES

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.

Eye

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



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.

> white to off-white solid Not Determined

Not Determined Not Determined

Not Determined

Not Determined Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

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

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- 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
- Explosive properties s)
- t) Oxidizing properties

9.2 Other safety information No data available

STABILITY AND REACTIVITY

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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	TOXICOLOGICAL INFORMATION					
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	TRANSPORTATION INFORMATION UN number ADR/RID: N/A IATA-DGR: N/A					
14.2	UN proper shipping name ADR/RID: Not a dangerous good					



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 reseptions 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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