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/03/2018

BORON	Page 1 Produced according to GHS:2011(re
MOLECULAR	Issue Date: 9/03/201
Sa	afety Data Sheet
IDENTIFICATION OF THE SUBSTAN	ICE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product Identifiers Product Name: 1,4-Cubanedicarbo	oxylic acid
Product Code: BM540 CAS-No.: 32846-66-5	
L. C.	
Relevant identified uses of the subs	stance or mixture and uses advised against Laboratory chemicals, Manufacture of substances
<b>Details of the supplier of the safety</b> Company Address	Boron Molecular Pty Ltd 500 Princes Hwy (PO Box 756), Noble Park, Vic, 3174
Telephone Number Emergency Telephone Number	Australia +61 3 8558 8000 +1 703 527 3887 (Chemtrec) +61 413 777887, +61 412 191161 (Australia)
HAZARDS IDENTIFICATION	
Classification of the substance or n	nixture
Not a dangerous good according to G	SHS
Label elements	
Pictogram	
Signal word	
Hazard statement(s)	
Prevention	



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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

## 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	<b>Extinguishing media</b> Suitable extinguishing media Foam / Carbon dioxide / Dry powder
5.2	<b>Special hazards arising from the substance or mixture</b> 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	<b>Personal precautions, protective equipment and emergency procedures</b> 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	<b>Methods and materials for containment and cleaning up</b> Pickup and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
6.4	<b>Reference to other sections</b> For disposal see section 13.
7	HANDLING AND STORAGE
7.1	<b>Precautions for safe handling</b> 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	<b>Conditions for safe storage, including any incompatibilities</b> Handle and store in a DRY closed system, preferably under DRY nitrogen. Storage conditions: Store ≤ 25°C
7.3	<b>Specific end uses</b> 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)
- pН d)

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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
- s) Explosive properties
- t) Oxidizing properties

#### 9.2 Other safety information No data available

# Not Determined Not Determined Not Determined >225 (dec) Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

off-white to white solid

Not Determined Not Determined

#### 10 STABILITY AND REACTIVITY

10.1 Reactivity

Not Determined.



10.2	Chemical stability Not Determined.							
10.3	<b>Possibility of hazardous reactions</b> Not Determined - Not expected to occur.							
0.4	<b>Conditions to avoid</b> 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	<ul> <li>a) Acute toxicity</li> <li>b) Skin corrosion/irritation</li> <li>c) Serious eye damage</li> <li>d) Respiratory or skin sensitization</li> <li>e) Germ cell mutagenicity</li> <li>f) Carcinogenicity</li> <li>g) Reproductive toxicity</li> <li>h) Specific target organ toxicity <ul> <li>– single exposure</li> <li>i) Specific target organ toxicity</li> <li>– repeated exposure</li> </ul> </li> <li>j) Aspiration hazard</li> </ul> <li>ECOLOGICAL INFORMATION <ul> <li>12.1 Toxicity</li> <li>12.2 Persistence</li> <li>12.3 Bioaccumulative potential</li> <li>12.4 Mobility in soil</li> <li>12.5 Results of PBT and vPvB assessment</li> <li>12.6 Other adverse effects</li> </ul></li>	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       IMDG:       N/A       IATA-DGR:       N/A							
14.2	<b>UN proper shipping name</b> ADR/RID: Not a dangerous good							



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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       Solozana         Date of Preparation Revision No.       9/03/2018 8       Solozana         Disclaimer: 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 reset 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					
ADR/RID:       N/A       IMDG:       N/A       IATA-DGR:       N/A         14.4       Packaging group ADR/RID:       N/A       IMDG:       N/A       IATA-DGR:       N/A         14.5       Environmental hazard ADR/RID:       No       IMDG:       No       IATA-DGR:       No         14.6       Special precautions for user Not Applicable       No       IATA-DGR:       No         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.       No       Applicable         16       OTHER INFORMATION Revision No.       9/03/2018 8       Secondary State       Secondary State         17.6       Date of Preparation Revision No.       9/03/2018 8       Secondary State       Secondary State         Disclaimer: 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 respect to such information, and we assume no liability resulting from its use. Users should make their own nvestigations to determine the suitability of the information for their particular purposes. In no event shall 30ron 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 exempla		IATA-DGR:	Not a dangero	ous good					
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