

SAFETY DATA SHEET
BORON CITRATE (B 5%)
PRODUCT # BORON-CIT-1702

SECTION I – IDENTIFICATION

GHS Product Identifier: Boron Citrate (B 5%)

Product Code: FB00CIP281AI

Product Type: Powder

Identified Uses:

Ingredient for use in dietary supplements, food supplements, and other nutrition products.

Distributor Name: Bella Corp Trading Pty Ltd

Address: 6/34 Dominions Road Ashmore QLD 4214, Australia

Telephone: 07 5597 4169

Email: bellacorp@bellacorp.com.au

SECTION II – HAZARDS IDENTIFICATION

This section of the SDS applies when the product is used or handled above recommended amounts.

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the Substance or Mixture:

- COMBUSTIBLE DUSTS
- TOXIC TO REPRODUCTION (Fertility) - Category 1B
- TOXIC TO REPRODUCTION (Unborn child) - Category 1B

GHS Label Elements:

Hazard Pictograms:



Signal Word: Danger

Hazard Statements: May form combustible dust concentrations in air.
May damage fertility or the unborn child.

Precautionary Statements:

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: IF exposed or concerned: Get medical attention.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not

Otherwise Classified: Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Other means of identification: Not available

CAS Number/Other Identifiers:

Product Code: FB00CIP281AI

Ingredient Name	%	CAS#	Pure Substance Classification
Sodium borate	30 - 60	1330-43-4	TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B

The exact percentage of the chemical has been withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION IV – FIRST AID MEASURES

This section of the SDS applies when the product is used or handled above recommended amounts.

Description of Necessary First Aid Measures:

Eye Contact: In case of contact, immediately flush eyes with water for at least 15 minutes, preferably using an eyewash station. Remove any contact lens as soon as practical to do so. Get immediate medical attention if irritation occurs.

Inhalation: Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin Contact: Wash with soap and water for at least 15 minutes. Get immediate medical attention if irritation develops.

Ingestion: Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most Important Symptoms/Effects, Acute and Delayed:

Potential Acute Health Effects:

Eye Contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation: No known significant effects or critical hazards.

Skin Contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over-Exposure Signs/Symptoms:

Eye Contact: Adverse symptoms may include the following:
– irritation
– redness

Inhalation: No known significant effects or critical hazards.

Skin Contact: Adverse symptoms may include the following:
– reduced fetal weight
– increase in fetal deaths
– skeletal malformations

Ingestion: Adverse symptoms may include the following:
– reduced fetal weight
– increase in fetal deaths
– skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Specific Treatments: No specific treatment.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11).

SECTION V – FIRE FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Use dry chemical powder.

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical: Fine dust clouds may form explosive mixtures with air.

Hazardous thermal decomposition products: Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- metal oxide/oxides

Special protective actions for fire-fighters: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION VI – ACCIDENTAL RELEASE MEASURES

This section of the SDS applies when the product is used or handled above recommended amounts.

Personal precautions, protective equipment and emergency procedures:

- For non-emergency personnel:** Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.
- Environmental precautions:** Not applicable.

Methods and materials for containment and cleaning up:

- Spill:** Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION VII – HANDLING AND STORAGE

This section of the SDS applies when the product is used or handled above recommended amounts.

Precautions for safe handling:

- Protective measures:** Put on appropriate personal protective equipment (see Section 8). Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation.

Advice on general occupational hygiene: Normal good industrial hygiene.

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Proper personal protective equipment should be selected and worn when handling this product, as based on a risk assessment performed by a qualified person.

Control parameters:

Occupational exposure limits:

Ingredient Name	Exposure limits
Sodium borate	NIOSH REL (United States, 10/2013). TWA: 1 mg/m ³ 10 hours. ACGIH TLV (United States, 4/2014). STEL: 6 mg/m ³ 15 minutes. Form: Inhalable fraction TWA: 2 mg/m ³ 8 hours. Form: Inhalable fraction OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety

practice. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls:

In some cases, dust collection, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety glasses with side-shields conforming to EN166 / ANSI Z87 additional eye/face protection may be appropriate.

Skin protection:

Hand protection:

Handle with gloves. Gloves must be inspected prior to use to ensure there are no holes or tears. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of gloves after use in accordance with applicable laws and good industry practices. Wash and dry hands.

Body protection:

Wear appropriate clothing such as long sleeves and/or protective coveralls. The type of protective clothing must be selected according to the type, concentration and amount of the substance(s) at the specific workplace.

Other skin protection:

Not required under normal conditions of use.

Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type P100 (US) or type P3 (EU EN 143) respirator cartridges. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state:

Solid [Powder]

Colour:

Off-white

Odour:

Characteristic

Odour threshold:

Not available

pH:

Not available

Melting point:

Not available

Boiling point:

Not available

Flash point:

Not applicable

Evaporation rate:

Not applicable

Flammability (solid, gas):

Not available

Lower and upper explosive (flammable) limits:

Not available

Vapor pressure:

Not applicable

Vapor density:

Not applicable

Relative density:

>0.4

Solubility:

Partially soluble in the following materials: cold water and hot water

Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not applicable

SECTION X – STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials, reducing materials and acids.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Product/Ingredient Name	Result	Species	Dose	Exposure
Sodium borate	LD50 Oral	Rat	1200 mg/kg	72 hours 15 mg Intermittent

Irritation/Corrosion:

There is no data available.

Sensitization:

There is no data available.

Carcinogenicity:

There is no data available.

Specific target organ toxicity (single exposure):

There is no data available.

Specific target organ toxicity (repeated exposure):

There is no data available.

Aspiration Hazard:

There is no data available.

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects:

Eye contact:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical, and toxicological characteristics:

- Eye contact:** Adverse symptoms may include the following:
- irritation
 - redness
- Inhalation:** No known significant effects or critical hazards:
- Skin contact:** Adverse symptoms may include the following:
- reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations
- Ingestion:** Adverse symptoms may include the following:
- reduced fetal weight
 - increase in fetal deaths
 - skeletal malformations

Delayed and immediate effects and also chronic effects from short and long-term exposure:

Short-term exposure:

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Long-term exposure:

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects:

- General:** Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity:** No known significant effects or critical hazards.
- Mutagenicity:** No known significant effects or critical hazards.
- Teratogenicity:** May damage the unborn child.
- Developmental effects:** No known significant effects or critical hazards.
- Fertility effects:** May damage fertility.

Numerical measures of toxicity:

Acute toxicity estimates:

There is no data available.

SECTION XII – ECOLOGICAL INFORMATION

Toxicity:

Product/ingredient name	Result	Species	Exposure
Sodium borate	Acute EC50 15.4 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 141000 to 159000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3600 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Persistence and degradability:

There is no data available.

Bio-accumulative potential:

Product/Ingredient Name	LogP _{ow}	BCF	Potential
Sodium borate	-1.53	-	low

Mobility in soil:

Soil/water partition coefficient (K_{oc}):

Not available.

Other Adverse Effects:

No known significant effects or critical hazards.

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

SECTION XIV – TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

AERG: Not applicable.

Special Precautions for User:

Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):

Not listed.

Clean Air Act Section 602 Class I Substances:

Not listed.

Clean Air Act section 602 Class II Substances:

Not listed.

DEA List I Chemicals (Precursor Chemicals):

Not listed.

DEA List II Chemicals(Essential Chemicals):

Not listed.

SARA 302/304:

Composition/Information on Ingredients:

No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312:

Classification: Fire hazard
Delayed (chronic) health hazard

Composition/information on ingredients:

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Sodium borate	30 – 60	No	No	No	No	Yes

State regulations:

Massachusetts: The following components are listed: Disodium tetraborate, anhydrous.
New York: None of the components are listed.
New Jersey: The following components are listed: Disodium tetraborate, anhydrous.
Pennsylvania: The following components are listed: Disodium tetraborate, anhydrous.

California Prop. 65:

No products were found.

International regulations:

International lists:

- **Australia inventory (AICS):** All components are listed or exempted.
- **China inventory (IECSC):** All components are listed or exempted.
- **Japan inventory:** Not determined.
- **Korea inventory:** All components are listed or exempted.
- **Malaysia Inventory (EHS Register):** Not determined.
- **New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
- **Philippines inventory (PICCS):** All components are listed or exempted.
- **Taiwan inventory (CSNN):** Not determined.

Chemical Weapons Convention List Schedule I Chemicals: Not listed.

Chemical Weapons Convention List Schedule II Chemicals: Not listed.

Chemical Weapons Convention List Schedule III Chemicals: Not listed.

SECTION XVI – OTHER INFORMATION

History:

Date of Issue mm/dd/yyyy: 6/14/2017
Version: 1
Revised Section(s): Not applicable

Key to Abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.