



Safety Data Sheet

Biomim[®] Booster V Powder

SECTION 1: Product and Company Identification

Product name: Biomim[®] Booster V Powder
Product code: 0414 / 052056
Product use: Plant fertilizer
Product type: Solid / powder / granule

Importer & Distributor:
Roots, Shoots & Fruits Ltd
27 Hastie Avenue, Mangere Bridge
Auckland, New Zealand 2022
Ph: +64 (09) 372 9155
E: rsf@rd2.co.nz

Manufacturer:
JH Biotech, Inc.
4951 Olivas Park Drive
Ventura, CA 93003
Ph: (805)650-8933
Fax: (805)650-8942

24-Hour Emergency Contact in New Zealand:
0800 764 766 (0800 POISON)

SECTION 2: Hazards Identification

GHS Classification

Acute toxicity-oral, Category 4	H302
Skin irritation, Category 2	H315
Eye irritation, Category 2B	H320
Reproductive Toxicity, Category 2	H361
Specific target organ toxicity, repeated exposure, Category 2	H373
Hazardous to the aquatic environment, acute hazard, Category 3	H402
Hazardous to the aquatic environment, long-term hazard, Category 4	H413

GHS Label Elements

Pictogram:



Signal word: Warning

Hazard statements:

H302: Harmful if swallowed.
H315: Causes skin irritation.
H320: Causes eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H402: Harmful to aquatic life
H413: May cause long lasting harmful effects to aquatic life.

Precautionary statements

P103: Read label before use.
P203: Obtain, read and follow all safety instructions before use.
P260: Do not breathe dust.
P264 + P265: Wash hands thoroughly after handling. Do not touch eyes.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection/face protection.
P301 + P317 + P330: If swallowed: Get medical help. Rinse mouth.
P302 + P352: If on skin: Wash with plenty of soap and water.
P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308 + P317: If exposed or concerned: Get medical help.
P319: Get medical help if you feel unwell.
P332 + P317: If skin irritation occurs: Get medical help.
P337 + P317: If eye irritation persists: Get medical help.
P362 + P364: Take off contaminated clothing and wash before reuse.
P402 + P404: Store in a dry place. Store in a closed container.
P501: Dispose of contents/container in accordance with local regulation.



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SECTION 3: Composition/Information on Ingredients

Component	CAS No.	%	Component	CAS No.	%
Magnesium sulfate	7487-88-9	n/a	Manganese sulfate	10034-96-5	n/a
Sodium borate	12280-03-4	n/a	Zinc sulfate	7446-19-7	n/a
Copper sulfate	7758-99-8	n/a	Soy protein hydrolysate	68607-88-5	n/a
Ferrous sulfate	7720-78-7	n/a	Sodium molybdate	10102-40-6	
Citric acid	77-92-9				

SECTION 4: First Aid Measures

Inhalation: Remove from source of exposure. Get medical attention if necessary.

Skin contact: Wash thoroughly with soap and water. Get medical attention if necessary.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get emergency medical attention.

Ingestion: Wash out mouth with plenty of water. Do not induce vomiting. Get medical attention if necessary.

SECTION 5: Firefighting Measures

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide, foam

Special hazards arising from the substance or mixture.

None

Protection for firefighters

Wear protective clothing and equipment.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear protective clothing, gloves, and safety eye goggles.

Environmental precautions

Avoid discharge into environment.

Methods and material for containment and cleaning up.

Contain all spills and leaks to prevent discharge into the environment. Use appropriate tools to transfer spill material to proper disposal container. Or recover material and use it for its intended purpose.

SECTION 7: Handling and Storage

Precautions for safe handling

Avoid overheating or freezing.

Conditions for safe storage, including any incompatibilities.

Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed when not in use.

SECTION 8: Exposure Controls/Personal Protection

Exposure controls

Product has no occupational exposure limits. Avoid inhaling dusts or vapors. Practice good industrial hygiene and safety.

	OSHA PEL (8 hr TWA)	NIOSH REL (10 hr TWA)	ACGIH Threshold Limit Value (8 hr TWA)
Nuisance dust (total)	15 mg/m ³	n/a	n/a
Nuisance dust (resp)	5 mg/m ³	n/a	n/a



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Personal protection

Eye protection: Eye protection is not required. To avoid contact with eyes, use safety eye goggles.
Skin protection: Wear protective clothing as necessary to minimize contact. Use chemical resistant gloves.
Respiratory protection: Not required. Wear approved respiratory equipment if necessary.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Tan, light brown powder	Vapor pressure	Not applicable
Odor	Slight odor	Vapor density	Not applicable
pH	Not applicable	Relative density	0.4-0.7 g/cc
Physical state	Solid	Solubility	Not applicable
Melting point / Freezing point	>100°C / 212°F	Partition coefficient	Not applicable
Boiling point	Not applicable	Auto-ignition temperature	Not applicable
Flash point	Not applicable	Decomposition temperature	Not applicable
Evaporation rate	Not applicable	Viscosity	Not viscous
Flammability	Non-flammable	Explosive properties	Non-explosive
Explosive limits	Not applicable	Oxidizing properties	Non-oxidizer

SECTION 10: Stability and Reactivity

Reactivity

None

Chemical stability

Product is stable.

Possibility of hazardous reactions

Under normal conditions, hazardous reaction will not occur.

Conditions to avoid.

Avoid heat.

Incompatible materials

High pH chemicals. Phosphorus fertilizers

Hazardous decomposition products

No known hazardous decomposition products

SECTION 11: Toxicological Information

Information on toxicological effects:

No data for product. General information is for Sodium Borate CAS No. 12280-03-4 (Disodium octaborate tetrahydrate)

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact) Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because product is poorly absorbed through intact skin. Product is not intended for ingestion.

Acute toxicity: May be harmful if swallowed.
Skin Corrosion/Irritation: Does not cause irritation on intact skin.
Eye Damage/Irritation: May cause irritation.
Sensitization: Not known to cause skin sensitization.
Carcinogenicity: Not known to be carcinogenic.
Mutagenicity: Not known to be mutagenic.
Reproductive toxicity: Sodium borate may cause reproductive harm. May damage fertility or the unborn child.
Acute oral toxicity: LD50 in male rats is 2,550 mg/kg
Acute dermal toxicity: LD50 in rabbits is > 2,000 mg/kg

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

Products are not intended for ingestion. Small amounts (e.g., a teaspoonful) swallowed accidentally are not likely to cause effects. Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.



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

Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to borates in the environment.

SECTION 12: Ecological Information

Ecotoxicity

Harmful to aquatic organisms

Data is for Sodium Borate CAS No. 12280-03-4 (Disodium octaborate tetrahydrate)

Aquatic toxicity:

LC50, Fish (Pimephales promelas): 79.7 mg B/L or 380 mg Disodium octaborate, tetrahydrate/L (96 h)

LC50, Crustacea (Daphnia magna): 133 mg B/L or 635 mg Disodium octaborate, tetrahydrate/L (48 h)

EC50, Algae (Pseudokirchneriella subcapitata), biomass: 40 mg B/L or 191 mg Disodium octaborate, tetrahydrate/L (72 h).

Persistence and degradability

Not available

Bio accumulative potential

Not available

Mobility in soil

Soluble in water and may disperse in soil.

SECTION 13: Disposal Considerations

Waste treatment methods

Not hazardous waste. Dispose of product in accordance with federal, state, and local regulations. Consult with qualified representative for proper disposal or treatment.

SECTION 14: Transport Information

Transport Classification: Not classified as Dangerous Goods under the standard NZS 5433:2020 Transport of Dangerous Goods on Land.

DOT

Not regulated by U.S. DOT as hazardous material.

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: Not applicable

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15: Regulatory Information

HSNO Approval Number: HSR002571 Group Standard - Fertilisers (Subsidiary Hazard) Group Standard 2020

HSNO Approval Number: HSR003137 – Boron Sodium oxide, tetrahydrate

CERCLA

This product contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).



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Copper sulfate (CAS # 7758-99-8)
Ferrous sulfate (CAS# 7720-78-7)
Manganese sulfate (CAS# 10034-96-5)
Zinc sulfate (CAS # 7446-19-7)

California Prop 65

This product does not contain any chemical known to the State of California to cause cancer and birth defects or other reproductive harm

SARA 311/312 Hazards

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactive Hazard:	No

SARA 313

Copper sulfate (CAS # 7758-99-8) is subject to reporting levels established by SARA Title III, Section 313.
Manganese sulfate (CAS# 10034-96-5) is subject to reporting levels established by SARA Title III, Section 313.
Zinc sulfate (CAS # 7446-19-7) is subject to reporting levels established by SARA Title III, Section 313

Chemical Inventory Listing

New Zealand NZIoC: Sodium borate CAS No. 12280-03-4 (Disodium octaborate tetrahydrate) is listed.
Soy protein hydrolysate [CAS No. 68607-88-5] is listed.
Zinc sulfate [CAS No. 7446-19-7] is listed.
Citric acid [CAS No. 77-92-9] is listed.
Sodium molybdate [CAS No. 10102-40-6] is listed.
Manganese sulfate [CAS No. 10034-96-5] is listed.
Magnesium sulfate [CAS No. 7487-88-9] is listed.
Ferrous sulfate [CAS No. 7720-78-7] is listed.

SECTION 16:	Other Information
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