



Safety Data Sheet

Biomin[®] ZIM Powder

SECTION 1: Product and Company Identification

Product name: Biomin[®] ZIM Powder
Product code: 052015 / 403036
Product use: Plant fertilizer
Product type: Solid / powder / granule

Importer & Distributor:

Zadco for Quality Gro P/L
PO Box 6973 Baulkham Hills BC
NSW Australia 2153
Ph: +61 (02) 8814 6638
Fax: +61 (02) 8814 6623
Emergency telephone: 02 88146638

Manufacturer:

JH Biotech, Inc.
4951 Olivias Park Drive, Ventura, CA 93030
Ph: (805)650-8933
Fax: (805)650-8942

SECTION 2: Hazards Identification

Signal word: None
Label element: None
Hazard statement: Not hazardous
Precautionary statement: Do not swallow. Avoid contact with eyes.
First Aid: If swallowed: Seek medical attention. Rinse mouth. If in eyes: Remove contact lenses if present. Wash thoroughly with water for several minutes.
Storage & Disposal: Store in a safe manner. Dispose product/container in accordance with federal, state, and local regulations.

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	%
Manganese sulfate	10034-96-5	n/a
Zinc sulfate	7733-02-0	n/a
Ferrous sulfate	7720-78-7	n/a
Glycine	56-40-6	n/a

The specific identity and/or exact percentage of composition is not provided because it is a trade secret or is not considered hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4: First Aid Measures

Inhalation: Remove from source of exposure. Get medical attention if necessary.
Skin contact: Wash thoroughly with water. Get medical attention if necessary.
Eye contact: Wash eyes with plenty of water for at least 15 minutes. Be sure to remove contact lenses. Get medical attention if necessary.
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.



Safety Data Sheet

Biomin[®] ZIM Powder

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

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	Off white powder	Vapor pressure	Not applicable
Odor	No odor	Vapor density	Not applicable
pH	Not available	Relative density	1.21 g/ml
Physical state	Solid	Solubility	Soluble in water
Melting point / Freezing point	Not available	Partition coefficient	Not applicable
Boiling point	Not available	Auto-ignition temperature	Not applicable
Flash point	Not applicable	Decomposition temperature	Not applicable
Evaporation rate	Not applicable	Viscosity	Not applicable
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

Alkaline solutions, High pH chemicals

Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity: May be harmful if swallowed
Irritation: May cause eye or skin irritation
Corrosivity: Not known to be corrosive
Sensitization: None
Dose toxicity: Not known to be toxic
Carcinogenicity: Not known to be carcinogenic



Safety Data Sheet

Biomin[®] ZIM Powder

Mutagenicity: Not known to be mutagenic
Reproductive toxicity: Not known to cause reproductive harm

SECTION 12: Ecological Information

Ecotoxicity

Not considered hazardous.

Persistence and degradability

Not available

Bioaccumulative potential

Not available

Mobility in soil

Mobile because it is water soluble.

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

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

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).

Ferrous sulfate (CAS# 7720-78-7)

Manganese sulfate (CAS# 10034-96-5)

Zinc sulfate (CAS # 7446-19-7)

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

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.

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.



Safety Data Sheet

Biomin[®] ZIM Powder

Subject to “Right-To-Know” legislation in the following states

This product contains one or more substances subject to Right To Know.

Massachusetts:

Manganese sulfate (CAS# 10034-96-5)

Zinc sulfate (CAS # 7446-19-7)

New Jersey:

Manganese sulfate (CAS# 10034-96-5)

Zinc sulfate (CAS # 7446-19-7)

Pennsylvania:

Manganese sulfate (CAS# 10034-96-5)

Zinc sulfate (CAS # 7446-19-7)

SECTION 16: Other Information

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