Safety Data Sheet
Biomin® Manganese

SECTION 1: Product and Company Identification

Product name: Biomin Manganese
Product code:
Product use: Plant fertilizer
Product type: Solid, powder

Importer & Distributor:
JH Biotech Australasia Pty Ltd
PO Box 6710 Baulkham Hills BC
NSW Australia 2153
Ph: +61 (02) 8814 6245
Fax: +61 (02) 8814 6347

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

Emergency telephone: (800)428-3493 (within the United States)
(805)650-8933 (outside the United States)

SECTION 2: Hazards Identification

Contact with eyes may cause irritation. Inhalation of dust may cause nose, throat, or respiratory irritation. May be harmful if swallowed.

SECTION 3: Composition/Information on Ingredients

Component	CAS No.
Manganese sulfate	7785-87-7
Hydrolysed protein	N/A

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: 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
Not available

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
Not available

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.

Specific end use(s)
Not available

SECTION 8: Exposure Controls/Personal Protection

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

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Light pink powder
Odor	No offensive odor
pH	3 – 5
Melting point/freezing point	Not available
Boiling point	$100^{O}C/212^{O}F$
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Explosive limits	Not available
Vapor pressure	Not available
Vapor density	Not available

Relative density	1 g/cc
Solubility	Soluble in water
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Non explosive
Oxidizing properties	Not available

SECTION 10: Stability and Reactivity

Reactivity
Not available

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 solution of pH 10 or higher

Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation:	Not available
Corrosivity:	Not available
Sensitization:	Not available
Dose toxicity:	Not available
Carcinogenicity:	Not available
Mutagenicity:	Not available
Reproductive toxicity:	Not available

SECTION 12: Ecological Information

Ecotoxicity
Not available

Persistence and degradability
Not available

Bioaccumulative potential
Not available

Mobility in soil
Not available

SECTION 13: Disposal Considerations

Waste treatment methods
Not hazardous waste. Dispose of product in accordance with regulations.

SECTION 14: Transport Information

UN number: Not available
UN proper shipping name: Not available
Transport hazard class(es): Not available
Packing group: Not available
Environmental hazards: Not available
Special precautions for user: Not available

SECTION 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the product
Not available

SECTION 16: Other Information

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