Safety Data Sheet
Synergizer® 8-32-4

SECTION 1: Product and Company Identification

Product name: Synergizer® 8-32-4
Product code: 0602 / 059023
Product use: Plant fertilizer
Product type: Liquid
Manufacturer: JH Biotech, Inc.
4951 Olivas Park Drive, Ventura, CA 93003
Tel: (805) 650-8933 Fax: (805) 650-8942
info@jhbiotech.com
Emergency phone: INFOTRAC (24-Hour) 1-800-535-5053 (North America) 1-352-323-3500 (International)

SECTION 2: Hazards Identification

Signal word: Warning
Label element:

Hazard statement: Harmful if swallowed.
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.
HMIS Rating: Health = 1 Flammability = 0 Reactivity = 0

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	%	Component	CAS No.	%
Ammonium phosphate	7722-76-1	n/a	Manganese sulfate	10034-96-5	n/a
Potassium phosphate	7778-77-0	n/a	Zinc sulfate	7446-19-7	n/a
Ferrous sulfate	7720-78-7	n/a	Humic acid, leonardite	1415-93-6	n/a

The specific identity and/or exact percentage of composition is not provided because it is a trade secret.

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.

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.

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	Black,dark brown color	**Vapor pressure**	Not applicable
Odor	Slight odor	**Vapor density**	Not applicable
pH	5 – 7	**Relative density**	1.42 g/ml
Physical state	Liquid	**Solubility**	Soluble in water
Melting point / Freezing point	Not applicable	**Partition coefficient**	Not applicable
Boiling point	>100^{O}C/212^{O}F	**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
None

Hazardous decomposition products
Ammonia and nitrogen oxides

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity:	Harmful if swallowed
Irritation:	May cause eye or skin irritation
Corrosivity:	Not known to be corrosive
Sensitization:	Not known to cause sensitization
Dose toxicity:	Not known to be toxic
Carcinogenicity:	Not known to be carcinogenic
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
Soluble in water and may disperse in soil

SECTION 13: Disposal Considerations

Waste treatment methods
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)

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:	Yes
Chronic Health Hazard:	Yes
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

Subject to "Right-To-Know" legislation in the following states
This product contains one or more substances subject to Right To Know.

Massachusetts:
Zinc sulfate (CAS # 7446-19-7)

New Jersey:
Manganese sulfate (CAS# 10034-96-5)
Potassium phosphate (CAS# 7778-77-0)
Zinc sulfate (CAS # 7446-19-7)

Pennsylvania:
Manganese sulfate (CAS# 10034-96-5)
Potassium phosphate (CAS# 7778-77-0)
Zinc sulfate (CAS # 7446-19-7)

SECTION 16: Other Information

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