



Safety Data Sheet

Report Date 30-Oct-18

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1. Identification

Product Name : HM-1734
Synonyms : None
Product Use : Harpin alpha beta protein Seed Treatment
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : Warning (no symbol)
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Oral : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Dermal : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Hazard Categories : Hazards Not Otherwise Classified-Combustible Dust
Hazard Statement : May form combustible dust concentrations in air (not a GHS hazard)

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Harpin alpha beta protein	Not applicable	0.2-0.3
Ethene, homopolymer	9002-88-4	75.0
Sodium thiosulfate	10102-17-7	0.4-1.0
Dipotassium phosphate	7758-11-4	0.1-0.3
Maltodextrin	9050-36-6	19.6-23.0

NOTE: If Weight % is listed as a range, the specific percentage of composition has been withheld as a trade secret.

4. First Aid Measures

Eye : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin : Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.



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- Inhalation** : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
- Ingestion** : Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. Do not induce vomiting unless told to do so by a physician or poison control center. Never give anything by mouth if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

5. Fire Fighting Measures

- Extinguishing Media** : Use water spray, dry chemical, carbon dioxide or foam. Do not use high volume water jet.
- Specific Hazards Arising from the Chemical** : Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Dangerous gases are evolved in the event of a fire, including carbon monoxide and carbon dioxide.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Avoid dust formation. Remove all sources of ignition. Avoid breathing vapors, mist or gas. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Do not discharge into the environment. Do not let product enter drains.
- Methods and Materials for Containment and Cleanup** : Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly. Use non-sparking tools. Avoid dust formation and electrical charging (sparking) because dust explosion might occur.

7. Handling and Storage

- Precautions for Safe Handling** : Avoid dust formation. Handle and open container in a manner as to prevent spillage. Use only in an area with appropriate exhaust ventilation. Provide for appropriate exhaust ventilation and dust collection at machinery.
- Conditions for Safe Storage** : Keep away from direct sunlight, moisture, and heat. Keep containers tightly closed in a dry, cool and well-ventilated area. Store in original container and out of the reach of children, preferably in a locked storage area. After opening, use promptly. Do not contaminate food, water or feed by handling and storage.

8. Exposure Controls / Personal Protection



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TLV/PEL : Ethene, homopolymer (respirable particles): TLV=3 mg/m³; PEL=5 mg/m³.

Appropriate Engineering Controls : Provide for appropriate exhaust ventilation.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Off-white powder with waxy odor.

Flash Point, °F : >300 Degrees C.

Boiling Point, °F : No data available

Melting Point(Freezing point), °C : No data available

Vapor Pressure, mm Hg @ 20 °C : No information found

Vapor Density : No information found

Solubility in Water : Partial

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : No information found

Evaporation Rate(Butyl Acetate = 1) : No information found

Octanol/Water Partition Coefficient : No data available

pH : 6.0 to 8.5

Flammable Limits (approximate volume % in air) : No data available

Auto-ignition Temperature : No data available

Decomposition temperature : No data available

10. Stability and Reactivity

Reactivity : Not reactive under normal conditions.

Chemical Stability : Stable

Hazardous Decomposition Products : Thermal decomposition can lead to release of irritant gases or vapors, carbon dioxide, or carbon monoxide.

Hazardous Polymerization : Will not occur

Conditions to Avoid : Heat, flames, sparks, static electricity, elevated temperatures.

Incompatible Materials : Strong oxidizing agent and amines.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 data available. Not classified as hazardous under 29 CFR 1910.1200 (2012).

Acute Toxicity (Dermal LD50) : No LD50 data available. Not classified as hazardous under 29 CFR 1910.1200 (2012).



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- Acute Toxicity Inhalation LC50** : No LC50 data available. Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Likely Routes of Exposure** : Inhalation, eye contact, skin contact, ingestion
- Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Skin Sensitization** : No data available.
- Carcinogenic** : Not carcinogenic according to ACGIH, NTP, IARC or OSHA.
- Chronic Effects** : No information available
- Other Hazards** : No information available

12. Ecological Information

- Ecotoxicity** : Not classified as environmentally hazardous.
- Persistence and Degradability** : No information found
- Bioaccumulative Potential** : No information found
- Mobility in Soil** : No information found
- Other Adverse Effects** : Do not allow to get into surface water, drains, and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT, IATA or IMDG.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : No information found
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : No information found
- Freight Classification** : Pesticides, NOI, Plant Growth Regulator, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information



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National Fire Protection Association Rating :

Health: 0 Fire: 2 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: N
Delayed (Chronic) Health: N
Sudden Release of N
Pressure:
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Registration Number : 71771-11-5905
FIFRA Signal Word : Caution
FIFRA Label Statement : Keep out of reach of children.
FIFRA Label Statement : Harmful if swallowed.
FIFRA Label Statement : Harmful if inhaled.
FIFRA Label Statement : Avoid breathing dust.
FIFRA Label Statement : Harmful if absorbed through skin.
FIFRA Label Statement : Causes moderate eye irritation.
FIFRA Label Statement : Avoid contact with skin, eyes or clothing.

16. Other Information

Data of Preparation/Revision : 30-October-2018