



Safety Data Sheet

Report
Date 29-Dec-22

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1. Identification

Product Name : HM-2163
Synonyms : None
Product Use : Seed Treatment Soil Amendment
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 : None (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 : Not classified as hazardous under 29 CFR 1910.1200 (2012)

Hazard Statement : Not Hazardous

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Microorganism: Bacillus Thuringiensis EX297512 5x10(4) cfu/mL (colony forming units/milliliter)		1.00
Other ingredients: Water-based culture medium, Preservative, Antifoam, Thickener, Stabilizer		99.00

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.

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.



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- Ingestion** : Call a physician or poison control center immediately. Do NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Never give anything by mouth to an unconscious person.
- 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, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific Hazards Arising from the Chemical** : No particular hazards known.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective equipment. Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

6. Accidental Release Measures

- Personal Precautions** : Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
- Protective Equipment** : Safety glasses with side shields, waterproof gloves, long-sleeved shirt, long pants and shoes plus socks. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Keep spilled product from entering soil, drains or waterways.
- Methods and Materials for Containment and Cleanup** : Soak up spilled product with inert absorbent (e.g., sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into properly labeled containers. Clean contaminated floors and objects thoroughly, observing environmental regulations. Clean with disinfectants.

7. Handling and Storage

- Precautions for Safe Handling** : Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage. Remove PPE immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
- Conditions for Safe Storage** : Product expires 1 year after stamped Manufactured Date. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizer, food and feed. Store in original container and out of reach of children, preferably in a locked storage area. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

8. Exposure Controls / Personal Protection



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TLV/PEL : No known occupational limit values.
Appropriate Engineering Controls : Provide general ventilation.
Personal Protective Equipment : Safety glasses with side shields, waterproof gloves, long-sleeved shirt, long pants and shoes plus socks. Respiratory protection not normally needed.

9. Physical and Chemical Properties

Odor/Appearance : Beige to brown suspension; earthy odor.
Flash Point, °F : >201.2 Degrees F.
Boiling Point, °F : No data available
Melting Point(Freezing point), °C : No data available
Vapor Pressure, mm Hg @ 20 °C : No data available
Vapor Density : No data available
Solubility in Water : Dispersible
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.035 (8.63 lbs/gal)
Evaporation Rate(Butyl Acetate = 1) : No data available
Octanol/Water Partition Coefficient : Not applicable
pH : 7.0 to 7.4 @ 100%
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : No data available
Decomposition temperature : Not applicable

10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition Products : No decomposition products expected under normal conditions of use.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Protect from sunlight. Do not expose to temperatures exceeding 40 Degrees C./104 Degrees F.
Incompatible Materials : No data available

11. Toxicological Information

Acute Toxicity (Oral LD50) : LD50 (female rat) > 5,000 mg/kg. Not classified as hazardous under 29 CFR 1910.1200 (2012).



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- Acute Toxicity (Dermal LD50)** : LD50 (rat) > 5,000 mg/kg. Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Acute Toxicity Inhalation LC50** : LC50 (rat) > 5.13 mg/L/4 hour. Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Likely Routes of Exposure** : Eye contact, skin contact, inhalation, ingestion
- Skin Irritation** : Slight irritation may occur. Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Eye Irritation** : Minimally irritating (rabbit). Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Skin Sensitization** : No data available. Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Carcinogenic** : No ingredients listed as a carcinogen by IARC, NTP or OSHA.
- Chronic Effects** : No data available. Only acute toxicity studies have been performed on the formulated product.
- Other Hazards** : CA PROPOSITION 65 WARNINGS: No listed ingredients appear on the CA PROPOSITION 65 WARNINGS listing.

12. Ecological Information

- Ecotoxicity** : No information available
- Persistence and Degradability** : No information available
- Bioaccumulative Potential** : No information available
- Mobility in Soil** : No information available
- Other Adverse Effects** : Do not allow product to enter surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

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 for ground transportation.
- 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** : If shipped by air (IATA) or water (IMDG), ship as: UN3245, Genetically Modified Micro-organisms, 9 (pack and mark in accordance with Packing Instruction 959 - not subject to any other IATA regulations)
- Freight Classification** : Bacteria, Seed or Soil Inoculant (NMFC Item 20380, Class 60)



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15. Regulatory Information

National Fire Protection :
Association Rating

Health:

0

Fire: 0

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

16. Other Information

Data of Preparation/Revision : 29-December-2022