

Material Safety Data Sheet

Effective Date: 10-JAN-2005
Product: HELENA PGR-IV PLUS

I. IDENTIFICATION

Chemical Name: Bacillus cereus and Gibberellic Acid
Chemical Family: Plant Growth Regulator
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: Not applicable, formulated mixture.
EPA Number: 51036-325-5905

II. PHYSICAL DATA

Boiling Point: Not applicable
Freezing Point: Not applicable
Spec Gravity: 25-35 lbs./cu. ft.
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Solubility: Not soluble
Volatiles: Not determined
Evaporation: Not applicable
Melting Point: Not determined
Appearance: Off-white, coarse granule; no appreciable odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Bacillus cereus, Strain BP01	N/A	0.10	N/E	See Section V.
Gibberellic Acid	77-06-05	0.23	N/E	See Section V.
Inert ingredients		99.67	N/E	See Section V.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: Non-combustible
Autoignition Temp: Not applicable
Flammable Limit: Not applicable
Extinguishing Media: Use foam, dry chemical, carbon dioxide or water spray when fighting fires involving this material.
Special Fire Fight Proc: Wear full fire-fighting turnout gear (Bunker gear). Evacuate area and fight fire upwind, avoiding hazardous vapors and decomposition products.
Fire and Expl Hazard: None currently known.

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V. HEALTH HAZARD

Carcinogen Information: Not listed by OSHA, NTP or IARC.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Acute Oral LD50 (rat) > 5,000 mg/Kg. Prolonged or repeated contact may cause irritation.

Skin Absorption: Acute Dermal LD50 (rat) > 5,000 mg/Kg. Harmful if absorbed through skin. Avoid contact.

Inhalation: Acute Inhalation LC50 (rat) > 4.0 mg/L/4 hr. Slightly irritating to respiratory tract. Avoid breathing dust.

Skin contact: Prolonged or repeated skin contact may cause irritation. Avoid contact.

Eye Contact: May be mildly irritating to the eyes. Degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment. Avoid contact.

Chronic Effects: None known.

Other Hazard: None known.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a physician or Poison Control Center. Drink 1 or 2 glasses water and induce vomiting by touching back of throat with finger or administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Skin: Wash with plenty of soap and water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. Get medical attention.

Eyes: Flush with plenty of water. Call a physician if irritation persists.

Notes to Physician: There is no specific antidote for this material. Treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid exposure to high moisture conditions for

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prolonged periods.
Polymerization: Will Not Occur
Conditions to Avoid: None known.
Incompatibility material: None known.
Hazardous Combustion: None currently known.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Clean up spills immediately, using appropriate PPE as detailed below in Section VIII. Keep unnecessary and unprotected personnel from entering spill area. For large or small spills, vacuum or sweep up material and place in a container for reuse or disposal. For large spills, reduce airborne dust and prevent scattering by moistening with water.
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal conditions. Sensitive persons should use NIOSH-approved dust mask.
Ventilation: Provide mechanical ventilation to reduce potential exposure.
Gloves: Waterproof gloves.
Eyes: Safety glasses
Other: Eyewash station, emergency shower, long-sleeved shirt and long pants, shoes plus socks.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Use only in a well-ventilated area. Minimize dust generation and accumulation. Keep container closed when not in use.
Other precaution: None currently known.

X. SHIPPING INFORMATION

Helena Chemical Company
PH: 901-761-0050
CHEMTREC: 800-424-9300

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Shipping name: Not regulated by D.O.T.
Hazard Class: None
Identification No: None
Labels Required: None required
Placarding: None
Freight Class: Plant Growth Regulator, Inhibitor or Modifier,
Solid, NOIBN

Chemical Name	Equivalent R.Q.
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Not applicable	Not applicable

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1 Fire: 1 Reactivity: 0

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

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

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017
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