

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: BM-2 Terrestrial Orchid Medium, Contains 0.2 mg/L 6-Benzylaminopurine (BA) and Agar

PRODUCT NUMBER: B142

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This is not a hazardous substance or mixture

GHS Label elements, including hazard and precautionary statements:

This is not a hazardous substance or mixture

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture that contains, but is not limited to, these components. These components potentially could cause harm to the user or environment, or may be suspected to do so:

Ingredient	CAS Number	Percent	Hazardous	
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.14 %	No exposure limits established by OSHA or ACGIH	
Cobalt Chloride, Hexahydrate	7791-13-1	0.00009 %	ACGIH TLV: 0.02 mg (Co)/m ³	
Cupric Sulfate, Pentahydrate	7758-99-8	0.00009 %	NIOSH REL: 1 mg/m ³	
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.0009 %	OSHA PEL: 5 mg (Mo)/m³; ACGIH TLV: 0.5 mg (Mo)/m³	
Manganese Sulfate, Monohydrate	10034-96-5	0.092 %	OSHA PEL: 5 mg/m ³ ; ACGIH TLV: 0.2 mg (Mn)/m ³	
Boric Acid	10043-35-3	0.037 %	ACGIH TLV: 2 mg/m ³	
Sucrose	57-50-1	73.48 %	OSHA PEL: 15 mg/m ³ ; ACGIH TLV: 10 mg/m ³	
Ferrous Sulfate, Heptahydrate	7782-63-0	0.1 %	ACGIH TLV: 1 mg (Fe)/m ³	

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

Route of Entry Symptoms First Aid Procedures

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Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything

by mouth to an unconscious person. Get medical attention.

Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute

tract

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**

Eye Contact Direct contact may cause irritation.

May cause redness, tearing, or

blurred vision.

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation**

persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation**

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-

contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: No data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: No data available

Recommended Storage Temperature: 2 to 6 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): Manganese Sulfate, Monohydrate: 5 mg (Mn)/m³

Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m³

Sucrose: 15 mg/m³

ACGIH Threshold Limit Values (TLVs): Boric Acid: 2 mg/m³

Cobalt Chloride, Hexahydrate: 0.02 mg (Co)/m³ Ferrous Sulfate, Heptahydrate: 1 mg (Fe)/m³

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Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/m³ Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m³

Sucrose: 10 mg/m³

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Respiratory protection is not required.

Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying

respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-White to Yellow powder

pH (27.22 g/L): 5.0 - 6.0

Solubility: Partially soluble in Water

Melting Point: No data available Vapor Density: No data available Vapor Pressure: No data available Odor: May have slight odor Odor Threshold: No data available Viscosity: No data available

Evaporation Rate: No data available

No data available

Initial Boiling Point and

Boiling Range:

Relative Density:

No data available

Flammability (solid, gas): No data available

Partition coefficient:

No data available

n-octanol/water): Auto-ignition Temperature: No data available **Decomposition Temperature:** No data available No data available

Flash Point (Closed Cup):

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

No data available Reactivity:

Chemical Stability: Stable

Possibility of Hazard Reactions: No data available Conditions to Avoid: No data available

Incompatibles Materials: Strong reducing agents, strong acid, finely powdered metals

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, **Hazardous Decomposition Products:**

Potassium oxides, Sodium oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper

oxides

11. TOXICOLOGICAL INFORMATION

Product No: B142 Page 3 of 5 Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): No data available

 LD_{50} (Oral-Mouse)(mg/Kg): No data available LD_{50} (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No

IARC: No OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Single Exposure: No data available

Toxicity:

Repeated Exposure: No data available

Target Organs: No data available

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: Not listed

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

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TSCA:

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

California Proposition 65 List: This product is not known to the State of California to cause cancer or

reproductive toxicity

Massachusetts Right to Know Components:

CAS No.
Ferrous Sulfate 7782-63-0
Zinc Sulfate 7446-20-0
Sucrose 57-50-1

New Jersey Right To Know Components:

CAS No. Ferrous Sulfate 7782-63-0 Zinc Sulfate 7446-20-0

Pennsylvania Right To Know Components:

CAS No.

Manganese Sulfate 10034-96-5

Ferrous Sulfate 7782-63-0

Zinc Sulfate 7446-20-0

Sucrose 57-50-1

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health	Flammability	Physical Hazard	Personal Protection
2	0	3	В
Health	Fire Hazard	Instability	Special Hazard
2	0	2	

Phyto Technology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Phyto Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 29March2017

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