

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Bold's Basal Medium	
PRODUCT NUMBER:	B1675	
COMPANY INFO:	PhytoTech Labs Inc. 14610 W 106 th St. Lenexa, KS 66215 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com	
EMERGENCY PHONE NUM (INFOTRAC):	IBER 1-800-535-5053 - US Only 1-352-323-3500 - International	
RECOMMENDED USE:	For Research Use Only	
RESTRICTIONS ON USE:	Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, in vitro diagnostics, or as household chemicals.	

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification:

- H272 Oxidizing solids (Category 3)
- H315 Skin irritation (Category 2)
- H319 Eye irritation (Category 2A)

H335 – Specific target organ toxicity – single exposure – Respiratory system (Category 3)

GHS Label elements, including hazard and precautionary statements:



Hazard Statements:

- H272 May intensify fire; oxidizer.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.



Precautionary Statements:

- P210 Keep away from heat
- P220 Store away from combustible materials
- P221 Take any precaution to avoid mixing with
- combustibles.
- P261 Avoid breathing dust
- P280 Wear protective clothing/protective gloves/eye protection.

P302 + P352 + IF ON SKIN: Wash with plenty of soap and water

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get Medical attention if you feel unwell

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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, the following components that may cause harm to the user or environment or may be suspected to do so:

Ingredient	CAS Number	Percent	Hazardous
EDTA free acid	60-00-4	9.02%	No exposure limits established by OSHA or ACGIH
Magnesium Sulfate, heptahydrate	10034-99-8	5.17%	No exposure limits established by OSHA or ACGIH
Manganese Chloride, tetrahydrate	13446-34-9	0.20%	OSHA PEL: 5 mg (Mn)/m3 ACGIH TLV: 0.2 mg (Mn)/m3
Potassium Phosphate monobasic	7778-77-0	24.89%	No exposure limits established by OSHA or ACGIH
Sodium Nitrate	7631-99-7	35.56%	No exposure limits established by OSHA or ACGIH
Ferrous Sulfate, heptahydrate	7782-63-0	0.07%	ACGIH TLV: 1 mg (Fe)/m ³
Sodium Molybdate (VI), Dihydrate	10102-40-6	0.0004%	OSHA PEL: 5 mg(Mo)/m ³ ; ACGIH TLV: 0.5 mg(Mo)/m ³
Cupric Sulfate, Pentahydrate	7758-99-8	0.002%	NIOSH REL: 1 mg/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		
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 tract	Safely remove victim to fresh air. If not breathing, institute 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 Sum	Most Important Symptoms or Effects, Dath Asyste and Delayade			

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. Keep away from combustible materials. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture.
Incompatibilities:	No data available
Recommended Storage Temperature:	2-8°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):		(PELs):	Manganese Chloride, tetrahydrate: 5 mg (Mn)/m ³ Sodium Molybdate (VI), Dihydrate: 5 mg (Mo)/m ³
ACGIH Threshold Limit Values (TLVs):		Vs):	Manganese Chloride, tetrahydrate: 0.2 mg (Mn)/m ³ Sodium Molybdate (VI), Dihydrate: 5 mg (Mo)/m ³ Ferrous Sulfate, Heptahydrate: 1 mg (Fe)/m ³
Engineeri	ng Controls:		Handle in accordance to general industrial hygiene and safety practice.
Personal l	Protective Equipment (PPE):	:	
	Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.	
	Skin Protection:	Protectiv	re 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-Whit	te Powder	
pH (4.43 g/L):	No data a	available	
Solubility:	Soluble i	n Water	
Melting Range:	No data a	available	
Vapor Density:	No data a	No data available	
Vapor Pressure:	No data a	available	
Specific Gravity:	No data a	available	
Odor:	Odorless		
Odor Threshold:	No data a	available	
Viscosity: No data		available	
Relative Density:	No data a	available	
Evaporation Rate:		No data available	
Initial Boiling Point and Boiling Range:		No data available	
Flammability (solid,	No data available		
Partition coefficient: n-octanol/water):		No data available	
Auto-ignition Temperature:		No data available	
Decomposition Temperature:		No data available	

Flash Point (Closed Cup):	No data	No data available		
Flammable Limits:	Upper (%) – No data available	Lower (%) – No data available	
10. STABILITY AND REA	ACTIVITY	,		
Reactivity:		No data available		
Chemical Stability:		Stable under normal co	onditions of use	
Possibility of Hazard Reaction	ons:	No data available.		
Conditions to Avoid:		No data available.		
Incompatibles Materials:		Strong oxidizing agen	ts	
Hazardous Decomposition Products:		Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Potassium oxides, Sodium oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper oxides		
11. TOXICOLOGICAL I	NFORMAT	TION		
Toxicity:	LD ₅₀ (Ora	al-Rat)(mg/Kg):	No data available	
	LD ₅₀ (IP-]	Mouse)(mg/Kg):	No data available	
	LD ₅₀ (Der	rmal-Rabbit)(mg/Kg):	No data available	
Carcinogenicity:	NTP:	No		
	IARC:	No		
	OSHA Re	eg: No		
Reproductive Toxicity:	No data a	vailable		
		posure: No dat	a available	
Toxicity:	Repeated	Exposure: No dat	a available	
Target Organs:	No data a	No data available		
Routes of Entry:	Ingestion,	inhalation, skin and eye	contact	
NIOSH/RTECS NO:	Not listed			

To the best of our knowledge 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

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

Disposal Procedure:

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16. OTHER INFORMATION		•	

HMIS Rating:	Health	Flammability	Physical Hazard	Personal Protection
	2	0	2	В
NFPA Rating:	Health	Fire Hazard	Instability	Special Hazard
	2	0	2	OX

PhytoTech Labs Inc. 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. PhytoTech Labs Inc. 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: 2 March 2020