

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: BG-11 Medium Solution, 50x
 PRODUCT NUMBER: B1411
 COMPANY INFO: PhytoTech Labs Inc.
 14610 W 106th St. Lenexa, KS 66215
 Phone: 1-888-749-8682 or 1-913-341-5343
 www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
 (INFOTRAC): 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, or as household chemicals

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H315 - Skin irritation (Category 2)
 H319 - Eye irritation (Category 2A)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: **Warning**

Hazard Statements:

H315 – Causes skin irritation.
 H319 – Causes serious eye irritation.

Precautionary Statements:

P280 – Wear protective clothing/protective gloves/eye protection
 P302 + P352 + IF ON SKIN: Wash with plenty of soap and water
 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 (w/v)	Hazardous
Boric Acid	10043-35-3	0.01%	ACGIH TLV: 2 mg/m ³
Calcium Chloride, Anhydrous	10043-52-4	0.18%	No exposure limits established by OSHA or ACGIH
Citric Acid, Anhydrous	77-92-9	0.03%	No exposure limits established by OSHA or ACGIH
Cupric Sulfate, Pentahydrate	7758-99-8	0.005%	NIOSH REL: 1 mg/m ³
Magnesium Sulfate, Heptahydrate	10034-99-8	0.38%	No exposure limits established by OSHA or ACGIH
Manganese Chloride, Tetrahydrate	13446-34-9	0.01%	No exposure limits established by OSHA or ACGIH
Potassium Phosphate, Dibasic	11-4-7758	0.20%	No exposure limits established by OSHA or ACGIH
Sodium Carbonate, Anhydrous	497-19-8	0.10%	No exposure limits established by OSHA or ACGIH
Sodium Molybdate (VI), Dihydrate	10102-40-6	<0.01%	OSHA PEL: 5 mg/m ³ ; ACGIH TLV: 0.5 mg/m ³
Sodium Nitrate	7631-99-4	7.50%	No exposure limits established by OSHA or ACGIH

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 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 breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

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

Method of Containment and Cleanup: Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. 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. Product is hygroscopic.

Incompatibilities: No data available

Recommended Storage Temperature: 2 to 6 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m³

ACGIH Threshold Limit Values (TLVs): Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, Colorless Solution
pH: No data available
Solubility: Miscible with Water
Melting Range: No data available
Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: No data available
Odor: Odorless
Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available
Evaporation Rate: No data available
Initial Boiling Point and Boiling Range: No data available
Flammability (solid, gas): 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 available
Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under normal conditions of use
Possibility of Hazard Reactions: No data available
Conditions to Avoid: No data available
Incompatibles Materials: Strong reducing agents, strong acid, finely powdered metals
Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas, Potassium oxides, Sodium oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper oxides

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): No data available
LD₅₀ (Oral-Mouse)(mg/Kg): No data available
LD₅₀ (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity:	NTP:	No
	IARC:	No
	OSHA Reg:	No
Reproductive Toxicity:	No data available	
Specific Target Organ Toxicity:	Single Exposure:	No data available
	Repeated Exposure:	No data available
Target Organs:	No data available	
Routes of Entry:	Inhalation, Ingestion, 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.
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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

TSCA:	No
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SARA TITLE III:

Section 302 (EHS) Ingredients:	No
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Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: No SARA Hazard

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

Massachusetts Right To Know Components:

	CAS No.
Sodium Nitrate	7631-99-4

New Jersey Right To Know Components: This product is not listed amongst the New Jersey Right to Know Hazardous Substance Fact Sheets

Pennsylvania Right To Know Components:

	CAS No.
Sodium Nitrate	7631-99-4

16. OTHER INFORMATION

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 OR FURTHER MANUFACTURING USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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