

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Gamborg B-5 Basal Medium

PRODUCT NUMBER: G398

COMPANY INFO: PhytoTech Labs Inc.

14610 W 106th St. Lenexa, KS 66215

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www.phytotechlab.com

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

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only.

RESTRICTIONS ON USE: 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)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Warning

Hazard Statements:

ments: Precautionary Statements:

H272 – May intensify fire; oxidizer. P210 - Keep away from heat

P220 – Store away from combustible materials P221 – Take any precaution to avoid mixing with

combustibles.

P280 – Wear protective clothing/protective gloves/eye

protection.

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	
Potassium Nitrate	7757-79-1	77.88 %	No exposure limits established by OSHA or ACGIH	
EDTA, Disodium Salt, Dihydrate	6381-92-6	1.16 %	No exposure limits established by OSHA or ACGIH	
Ferrous Sulfate, Heptahydrate	7782-63-0	0.87%	ACGIH TLV: 1 mg (Fe)/m ³	
Cobalt Chloride, Hexahydrate	7791-13-1	0.0008 %	ACGIH TLV: 0.02 mg (Co)/m ³	
Cupric Sulfate, Pentahydrate	7758-99-8	0.0008 %	NIOSH REL: 1 mg/m ³	
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.008 %	OSHA PEL: 5 mg (Mo)/m ³ ; ACGIH TLV: 0.5 mg (Mo)/m ³	
Manganese Sulfate, Monohydrate	10034-96-5	0.31 %	OSHA PEL: 5 mg (Mn)/m³; ACGIH TLV: 0.2 mg (Mn)/m³	
Potassium Iodide	7681-11-0	0.023 %	ACGIH TLV: 0.01 mg/m ³	
Boric Acid	10043-35-3	0.093 %	ACGIH TLV: 2 mg/m ³	

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4. FIRST AID MEASURES

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

area.

First Aid Procedures Route of Entry Symptoms May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything Ingestion by mouth to an unconscious person. Get medical attention. Inhalation Safely remove victim to fresh air. If not breathing, institute May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. Flush immediately with large amounts of water for at least 15 Eye Contact Direct contact may cause irritation. minutes. Eyelids should be held away from the eyeball to May cause redness, tearing, or blurred vision. ensure thorough rinsing. Get medical attention if irritation persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash

Most Important Symptoms or Effects, Both Acute and Delayed:

itching or inflammation.

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.

persists.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

contaminated clothing. Get medical attention if irritation

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 vapours, 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

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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

ACGIH Threshold Limit Values (TLVs): Sodium Molybdate(VI), Dihydrate: 0.5 mg (Mo)/m³

Ferrous Sulfate, Heptahydrate: 1 mg (Fe)/m³ Cobalt Chloride, Hexahydrate: 0.02 mg (Co)/m³ Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/m³

Potassium Iodide: 0.01 mg/m3

Boric Acid: 2 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

White to off-white powder Appearance:

pH (3.21 g/L): 3.5-4.5

Solubility: Soluble in 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 No data available Viscosity: Relative Density: No data available

No data available **Evaporation Rate:**

Initial Boiling Point and

Boiling Range:

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 Flash Point (Closed Cup):

No data available

Flammable Limits:

Upper (%) – No data available Lower (%) – No data available

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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: No data available

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 INFORMATION

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

> LD₅₀ (IP-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

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 No data available Other Adverse Effects:

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:

SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients:

CAS No.

Potassium Nitrate 7757-79-1

Section 304 (EHS/CERCLA) Ingredients: No

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

California Proposition 65 List: None of the components in this product are known to cause cancer or

reproductive toxicity

Massachusetts Right To Know Components:

CAS No.
Potassium Nitrate 7757-79-1
Ferrous Sulfate 7782-63-0
Zinc Sulfate 7446-20-0

New Jersey Right to Know Components:

CAS No.
Potassium Nitrate 7757-79-1
Ferrous Sulfate 7782-63-0
Zinc Sulfate 7446-20-0

Pennsylvania Right to Know Components:

CAS No.
Potassium Nitrate 7757-79-1
Manganese Sulfate 10034-96-5
Ferrous Sulfate 7782-63-0
Zinc Sulfate 7446-20-0

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16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

Health	Flammability	Physical Hazard	Personal Protection
2	0	1	В
Health	Fire Hazard	Instability	Special Hazard
2	0	1	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.

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