



Health	1
Fire	1
Reactivity	0
Personal Protection	

Material Safety Data Sheet

Gamborg's B-5 medium with vitamins

1: Chemical Product and Company Identification

Product Name: Gamborg's B-5 medium with vitamins

Catalog Code: 30630029-1, 30630029-2, 30630029-3, 30630029-4, 30630029-5, 30630029-6, 30630029-7, 30630029-8, 30630029-9, 30630029-10

CAS#: Mixture.

RTECS: Mixture.

TSCA: TSCA 8(b) inventory : Components were included.

CI#: Not available.

Synonym: Not available.

Chemical Name: Gamborg's B-5 medium with vitamins

Chemical Formula: Mixture.

Contact information:

bioWORLD
4150 Tuller Rd
Suite 228, Dublin, OH 43017, USA

For information, call: 614-792-8680
Fax Number: 614-792-8685
Order Online: www.bio-world.com

E-mail : save@bio-world.com

In case of a chemical emergency, contact local hospital.

For non-emergency assistance, call: 1-800-860-9729

2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Ammonium Sulfate	7783-20-2	
Calcium Chloride Anhydrous	10043-52-4	
Magnesium Sulfate Anhydrous	7487-88-9	
Potassium Nitrate	7757-79-1	
Boric Acid	10043-35-3	
Cobalt Chloride-6H ₂ O	7791-13-1	
Cupric Sulfate Anhydrous	7758-98-7	
Ferrous Sulfate-7H ₂ O	7782-63-0	
Manganese Sulfate-H ₂ O	10034-96-5	
Molybdic Acid Sodium Salt-2H ₂ O	6381-92-6	
Na ₂ -EDTA-2H ₂ O	7681-11-0	
Potassium Iodide	7446-20-0	
Zinc Sulfate-7H ₂ O	87-89-8	
myo-Inositol	59-67-6	
Nicotinic acid	58-56-0	
Pyridoxine-HCl	67-03-8	
Thiamine-HCl		

Toxicological Data on Ingredients:

Not available.

3: Hazards Identification

Potential Acute Health Effects: May cause skin irritation and/or dermatitis

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

4: First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation: Not available.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Serious Ingestion: Not available.

5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Product of Combustion: Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Dry chemical powder.

LARGE FIRE: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

6: Accidental Release Measures

Small Spill: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventillate area and wash spill site after material pick up is complete.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage

Precautions: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed. Store at 2 - 8 °C.

8: Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protection: Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits: Not available.

9: Physical and Chemical Properties

Physical State and Appearance: Solid (Powder).

Odor: Not available.

Taste: Not available.

Molecular Weight: Mixture.

Color: Not available.

pH(1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not available.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

10: Stability and Reactivity Data

Stability: Stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Strong oxidizing agents.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11: Toxicological Information

Routes of Entry: Skin contact. Eye contact. Ingestion. Inhalation.

Toxicity to Animals:

Not available.

Chronic Effects on Humans: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Other Toxic Effects on Humans: Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed.

Skin contact: May cause allergic skin reaction

Eye contact: Avoid contact with eyes

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Product of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory : Ammonium Sulfate; Calcium Chloride Anhydrous; Magnesium Sulfate Anhydrous; Potassium Nitrate; Boric Acid; Cupric Sulfate Anhydrous; Potassium Iodide; myo-Inositol; Nicotinic acid; Pyridoxine-HCl; Thiamine-HCl

Other Regulations: Not available.

Other Classifications:

WHMIS(Canada): Not available.

DSCL(EEC): Not available.

HMIS(U.S.A):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

16: Other Information

References: Not available.

Other Special Considerations: Not available.

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