

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Chu N6 Basal Medium w/ Vitamins

PRODUCT NUMBER: C167

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

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, 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:

H272 – May intensify fire, oxidizer.

Precautionary Statements:

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. P370 + P378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

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	71.02 %	No exposure limits established by OSHA or ACGIH	
Ammonium Sulfate	7783-20-2	11.60%	No exposure limits established by OSHA or ACGIH	
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.93 %	No exposure limits established by OSHA or ACGIH	
Ferrous Sulfate, Heptahydrate	7782-63-0	0.70%	ACGIH TLV: 1 mg (Fe)/m ³	
Manganese Sulfate, Monohydrate	10034-96-5	0.083 %	OSHA PEL: 5 mg (Mn)/m ³ ; ACGIH TLV: 0.2 mg (Mn)/m ³	
Potassium Iodide	7681-11-0	0.020 %	ACGIH TLV: 0.01 mg/m ³	
Boric Acid	10043-35-3	0.040 %	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

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

cardiopulmonary resuscitation (CPR). If breathing is difficult.

ensure clear airway and give oxygen. Get medical attention.

Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15

> May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to 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

> itching or inflammation. 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 dust, vapours, 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.

Wear suitable protective clothing. Avoid dust formation. Avoid breathing vapours, Method of Containment and Cleanup:

> mist or gas. 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 product enter

drains.

7. HANDLING AND STORAGE

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

incompatible substances. Provide adequate ventilation at places where dust is formed.

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. This material is hygroscopic.

Zinc, strong bases, powdered metals, strong oxidizing agents, strong acid, organic Incompatibilities:

materials, strong reducing agents, borane/boron oxides, methyl vinvyl ether, calcium

oxide

2-8°C Recommended Storage Temperature:

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Threshold Limit Values (TLVs): Ferrous Sulfate, Heptahydrate: 1 mg (Fe)/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

Appearance: White to off-white powder

pH (3.99 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: No data available Odor Threshold: No data available Viscosity: No data available

No data available **Evaporation Rate:**

No data available

Initial Boiling Point and

Relative Density:

No data available Boiling Range:

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

10. STABILITY AND REACTIVITY

Reactivity: No data available

Stable under normal conditions of use Chemical Stability:

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

Product No: C167 Page 3 of 5 Incompatibles Materials: Strong bases, Powdered metals, Strong oxidizing agents, Strong acids, Organic

materials, Strong reducing agents, Borane/boron oxides, Methyl vinyl ether, calcium

oxide

Hazardous Decomposition Products: Nitrogen oxides (NOx), Sulphur oxides, Oxides of phosphorus, Hydrogen chloride

gas, Potassium oxides, Magnesium oxide, Calcium oxide

11. TOXICOLOGICAL INFORMATION

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: 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

Toxicity: 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

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UN/NA: N/A Labels: N/A

15. REGULATORY INFORMATION

TSCA:

SARA TITLE III:

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

CAS No.

Potassium Nitrate 7757-79-1

Section 311/312 Hazard: Chronic Health 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.
Ammonium Sulfate 7783-20-2
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

16. OTHER INFORMATION

HMIS Rating:

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

NFPA Rating:

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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