

# SAFETY DATA SHEET

#### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Schenk & Hildebrandt Modified Basal Medium, Contains 10 g/L Sucrose,

1/2x Vitamins, 1/2x Micro- and 1/2x Macronutrients

PRODUCT NUMBER: \$808

COMPANY INFO: PhytoTech Labs Inc.

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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 Laboratory-use or Further Manufacture 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:

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.

H335 – May cause respiratory irritation.

**Precautionary Statements:** 

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.

#### 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	10.33 %	No exposure limits established by OSHA or ACGIH
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.083 %	No exposure limits established by OSHA or ACGIH
Cobalt Chloride, Hexahydrate	7791-13-1	0.0004 %	ACGIH TLV: 0.02 mg (Co)/m <sup>3</sup>
Cupric Sulfate, Pentahydrate	7758-99-8	0.0008 %	NIOSH REL: 1 mg/m <sup>3</sup>
Sodium Molybdate (VI), Dihydrate	10102-40-6	0.0004 %	OSHA PEL: 5 mg (Mo)/m <sup>3</sup> ; ACGIH TLV: 5 mg (Mo)/m <sup>3</sup>
Manganese Sulfate, Monohydrate	10034-96-5	0.041 %	OSHA PEL: 5 mg (Mn)/m <sup>3</sup>
Potassium Iodide	7681-11-0	0.004 %	ACGIH TLV: 0.01 mg/m <sup>3</sup>
Boric Acid	10043-35-3	0.021 %	No exposure limits established by OSHA or ACGIH

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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** 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, 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. May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation blurred vision. persists. Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation itching or inflammation.

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 selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas,

Potassium oxides, Sodium oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper

oxides

#### 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. Product is hygroscopic.

Incompatibilities: Strong oxidizing agent

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)/m<sup>3</sup>

Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m<sup>3</sup>

ACGIH Threshold Limit Values (TLVs): Cobalt Chloride, Hexahydrate: 0.02 mg (Co)/m<sup>3</sup>

Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m<sup>3</sup>

Potassium Iodide: 0.01 mg/m<sup>3</sup>

Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/m<sup>3</sup>

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 (12.10 g/L): 4.0 - 5.0

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
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: Will not occur

Conditions to Avoid: Moisture, excessive heat

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Incompatibles Materials: Strong oxidizing agents

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: LD<sub>50</sub> (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

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions None identified

Aggravated By Exposure:

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

### 13. DISPOSAL CONSIDERATION

Other Adverse Effects:

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

No data available

## 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

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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

SARA TITLE III:

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

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.

Ferrous Sulfate 7782-63-0

**New Jersey Right to Know Components:** 

CAS No.

Potassium Nitrate 7757-79-1

Pennsylvania Right to Know Components:

CAS No.

Potassium Nitrate 7757-79-1 Ferrous Sulfate 7782-63-0

# 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2	*	0	2
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
Health Hazara	Tire Hazaru	Reactivity Hazaru	Speciai Hazaru

<sup>\*</sup>Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

### 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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