

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Schenk & Hildebrandt Basal Salt Mixture

PRODUCT NUMBER: S816

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 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:

H272 - Oxidizing solids (Category 3)

H315 - Skin irritation (Category 2)

H319 - Eye irritation (Category 2A)

H335 - Specific target organ toxicity – single exposure – Respiratory system (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Warning

Hazard Statements:

H272 – May intensify fire; oxidizer.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

Precautionary Statements:

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.

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	78.15 %	No exposure limits established by OSHA or ACGIH	
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.63 %	No exposure limits established by OSHA or ACGIH	
Cobalt Chloride, Hexahydrate	7791-13-1	0.003 %	No exposure limits established by OSHA or ACGIH	
Cupric Sulfate, Pentahydrate	7758-99-8	0.063 %	No exposure limits established by OSHA or ACGIH	
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.003 %	OSHA PEL: 5 mg (Mo)/m ³ ; ACGIH TLV: 5 mg (Mo)/m ³	
Manganese Sulfate, Monohydrate	10034-96-5	0.31 %	OSHA PEL: 5 mg (Mn)/m ³	
Potassium Iodide	7681-11-0	0.031 %	No exposure limits established by OSHA or ACGIH	
Boric Acid	10043-35-3	0.16 %	No exposure limits established by OSHA or ACGIH	

4. FIRST AID MEASURES

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

area.

Symptoms

Route of Entry

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

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

ensure thorough rinsing. Get medical attention if irritation blurred vision.

First Aid Procedures

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.

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: 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.

Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Conditions for Safe Storage:

Protect from moisture. Product is hygroscopic.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: 2-8°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product No: S816 Page 2 of 5 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: 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.

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 (3.20 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:

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 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

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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

Symptoms Associated with

Overexposure:

Irritation, sneezing, gastrointestinal upset

Specific Target Organ

Single Exposure:

No data available

Toxicity:

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 Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

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

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

> N/A Hazard Class: UN/NA: N/A Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

> Hazard Class: N/AUN/NA: N/A Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

> Hazard Class: N/A

Product No: S816 Page 4 of 5 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	Health Hazard Chronic Health Hazard		Physical Hazard
2	*	0	2
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
2	0	2	OX

^{*}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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