



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Schenk	Schenk & Hildebrandt Modified Basal Salt Mixture, Without Calcium		
PRODUCT NUMBER:	S806			
COMPANY INFO:	PO Box Phone:	<i>Phyto</i> Technology Laboratories® PO Box 12205, Shawnee, KS 66282-2205 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com		
EMERGENCY PHONE NUM	IBER:	1-800-535-5053 - US Only 1-352-323-3500 - International		
RECOMMENDED USE:	For Res	earch Use Only		
RESTRICTIONS ON USE:	only. P	s sold by <i>Phyto</i> Technology Laboratories® are intended for research and laboratory troducts are not to be used as human or animal therapeutics, cosmetics, agricultural or al products, food additives, 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)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



Signal Word: Warning

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.

Hazard Statements:

H272 – May intensify fire; oxidizer.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

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	82.03 %	No exposure limits established by OSHA or ACGIH	
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.66 %	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	0.007 %	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	0.33 %	OSHA PEL: 5 mg (Mn)/m ³	
Potassium Iodide	7681-11-0	0.033 %	No exposure limits established by OSHA or ACGIH	
Boric Acid	10043-35-3	0.16 %	No exposure limits established by OSHA or ACGIH	

use or

4. FIRST AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.			
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	May cause irritation to respiratory tract	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	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.		
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash 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:	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 to 6 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):		Manganese Sulfate, Monohydrate : 5 mg (Mn)/m ³ Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m ³		
ACGIH Threshold Limit Values (TLVs):		Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m ³		
Engineering Controls:	Har	ndle in accordance to general industrial hygiene and safety practice.		
Personal Protective Equipment (PPE)	:			
Eye/Face Protection:	Chemical safe eye contact ca	ety glasses or goggles. Have eye-washing facilities readily available where an occur.		
Skin Protection:	Protective glo	oves		
Body Protection:	Lab coat			
Respiratory Protection:	Respiratory p	protection is not required.		

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:	No data a		F • · · · · · ·		
Solubility:	Soluble in	n Water			
Melting Range:	No data a				
Vapor Density:	No data a	vailable			
Vapor Pressure:	No data a	vailable			
Specific Gravity:	No data a	vailable			
Odor:	Odorless				
Odor Threshold:	No data a	vailable			
Viscosity:	No data a	vailable			
Relative Density:	No data a	vailable			
Evaporation Rate:		No data	available		
Initial Boiling Point Boiling Range:	t and	No data	available		
Flammability (solid	l, gas):	No data	available		
Partition coefficient n-octanol/water):	t:	No data	available		
Auto-ignition Temp	perature:	No data	available		
Decomposition Ten	nperature:	No data	available		
Flash Point (Closed	Cup):	No data	available		
Flammable Limits:		Upper (%) – No data available	Lower (%) – No data available	
10. STABILITY A	AND REAG	CTIVITY			
Reactivity:			No data available		
Chemical Stability:			Stable		
Possibility of Hazar	d Reaction	s:	Will not occur		
Conditions to Avoid	d:		Moisture, excessive heat		
Incompatibles Mate	erials:		Strong oxidizing agents		
Hazardous Decomp	oosition Pro	ducts:		xides (NOx), Sulphur oxides, Hydrogen chloride gas, oxides, Cobalt/cobalt oxides, Molybdenum oxides, Copper	

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):		No data available	
	LD ₅₀ (Oral-Mouse)(mg/Kg):		No data available	
	LD ₅₀ (Dermal-I	Rabbit)(mg	g/Kg):	No data available
Carcinogenicity:	NTP:	No		
	IARC:	No		
	Z List:	No		
	OSHA Reg:	No		
Reproductive Toxicity:	No data available			
Symptoms Associated with Overexposure:	Irritation, sneezing, gastrointestinal upset			upset
Specific Target Organ Toxicity:	Single Exposur	e:	No data	available
Toxicity.	Repeated Exposure: No data		No data	available
Target Organs:	None identified			
Medical Conditions Aggravated By Exposure:	None identified			
Routes of Entry:	Inhalation, Ingestion, skin and eye contact			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)		
	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:		No
SARA TITLE III:		
Section 302 (EHS)) Ingredients:	No
Section 313 Ingred	lients:	No
Section 304 (EHS)	/CERCLA) Ingredients:	No
Section 311/312 H	lazard:	Chronic Health Hazard

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	2	*	0	2
NFPA Rating:	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

*Phyto*Technology Laboratories[®] 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. *Phyto*Technology Laboratories[®] 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.

Revision Date: 6 May 15