

# SAFETY DATA SHEET

# 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Anderson Basal Salt Mixture
PRODUCT NUMBER:	A267
COMPANY INFO:	PhytoTech Labs Inc. 14610 W 106 <sup>th</sup> St. Lenexa, KS 66215 Phone: 1-888-749-8682 or 1-913-341-5343 www.phytotechlab.com
EMERGENCY PHONE NUM (INFOTRAC):	IBER 1-800-535-5053 - US Only   1-352-323-3500 - International
RECOMMENDED USE:	For Laboratory-use or Further Manufacture only
RESTRICTIONS ON USE:	Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only. 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:



Hazard Statements:

- H272 May intensify fire; oxidizer.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.



Precautionary Statements:

- P210 Keep away from heat
- P220 Store away from combustible materials

P221 – Take any precaution to avoid mixing with

combustibles. P261 – Avoid breathing dust

P280 – Wear protective clothing/protective gloves/eye protection.

P302 + P352 + IF ON SKIN: Wash with plenty of soap and water

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get Medical attention if you feel unwell

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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
Ammonium Nitrate	6484-52-2	21.21 %	No exposure limits established by OSHA or ACGIH
Potassium Nitrate	7757-79-1	25.45 %	No exposure limits established by OSHA or ACGIH
EDTA, Disodium Salt, Dihydrate	6381-92-6	3.95 %	No exposure limits established by OSHA or ACGIH
Cobalt Chloride, Hexahydrate	7791-13-1	0.001 %	OSHA PEL: 0.1 mg(Co)/m <sup>3</sup> , ACGIH TLV: 0.02 mg (Co)/m <sup>3</sup>
Cupric Sulfate, Pentahydrate	7758-99-8	0.001 %	NIOSH REL: 1 mg/m <sup>3</sup>
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.01 %	OSHA PEL:1 mg(Mo)/m <sup>3</sup> ; ACGIH TLV: 0.1 mg(Mo)/m <sup>3</sup>
Manganese Sulfate, Monohydrate	10034-96-5	0.90 %	OSHA PEL: 5 mg (Mn)/m <sup>3</sup> ; ACGIH TLV: 0.2 mg (Mn)/m <sup>3</sup>
Potassium Iodide	7681-11-0	0.016 %	ACGIH TLV: 0.1 mg/m <sup>3</sup>
Boric Acid	10043-35-3	0.33 %	No exposure limits established by OSHA or ACGIH

### 4. FIRST AID MEASURES

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

<b>Route of Entry</b>	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. <b>Get medical attention.</b>
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 Sym	ptoms or Effects. Both Acute and Delayed	1:

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 vapours, 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.
Incompatibilities:	No data available
Recommended Storage Temperature:	2-8°C

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): ACGIH Threshold Limit Values (TLVs):			Manganese Sulfate, Monohydrate : 5 mg (Mn)/m <sup>3</sup> Sodium Molybdate(VI), Dihydrate: 1 mg (Mo)/m <sup>3</sup> Cobalt Chloride, Hexahydrate: 0.1 mg (Co)/m <sup>3</sup> Sodium Molybdate(VI), Dihydrate: 0.1 mg (Mo)/m <sup>3</sup> Cobalt Chloride, Hexahydrate: 0.05 mg (Co)/m <sup>3</sup> Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/m <sup>3</sup> Potassium Iodide: 0.1 mg/m <sup>3</sup>
Engineeri	ng Controls:		Handle in accordance to general industrial hygiene and safety practice.
Personal Protective Equipment (PPE):		:	
	Eye/Face Protection:		I safety glasses or goggles. Have eye-washing facilities readily available where act can occur.
	Skin Protection:	Protective gloves	
	Body Protection:	Lab coat	
Use N95 A NIOSI concentra		Use N95 A NIOS concentr	ory protection is not required. (US) or type P1 (EN 143) dust mask where dust level is nuisance. H/MSHA approved air purifying respirator is recommended where airborne rations are expected to exceed exposure limits. Protection provided by purifying rs is limited.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to	off-white powder		
pH (1.89 g/L):	3.2 - 4.3			
Solubility:	Soluble in	n Water		
Melting Range:	No data a	vailable		
Vapor Density:	No data a	vailable		
Vapor Pressure:	No data a	available		
Specific Gravity:	No data a	data available		
Odor:	Odorless			
Odor Threshold: No dat		vailable		
Viscosity: No data		vailable		
Relative Density:	No data a	vailable		
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 Temper	rature:	No data available		

Decomposition Temperature: Flash Point (Closed Cup):		available available		
Flammable Limits:	Upper (	%) – No data available	Lower (%) – No data available	
10. STABILITY AND REA	CTIVITY			
Reactivity:		No data available		
Chemical Stability:		Stable under normal con	ditions of use	
Possibility of Hazard Reactions:		No data available.		
Conditions to Avoid:		No data available.		
Incompatibles Materials:		Strong reducing agents,	strong acids, finely powered metals	
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> (Ora	ll-Rat)(mg/Kg):	No data available	

Toxicity:	$LD_{50}$ (Oral-Rat)	(mg/Kg):	ľ	No data available
	LD50 (IP-Mouse	1	No data available	
	LD <sub>50</sub> (Dermal-F	Rabbit)(mg/H	Kg): N	No data available
Carcinogenicity:	NTP:	No		
	IARC:	No		
	OSHA Reg:	No		
Reproductive Toxicity:	No data availab	le		
Specific Target Organ	Single Exposure	N	No data av	ailable
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# To the best of our knowledge the toxicological properties of this product have not been thoroughly investigated.

# **12. ECOLOGICAL INFORMATION**

	ailable
Persistence and Degradability: No data av	
Bioaccumulative Potential: No data av	ailable
Mobility in Soil: No data av	vailable
Other Adverse Effects: No data av	vailable

# 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

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CAS No.	No	
7757-79-1		
CLA) Ingredients:	No	
:	Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard	
List:	None of the components in this product are known to cause cancer or reproductive toxicity	
now Components:		
7782-63-0		
Components:		
CAS No.		
6484-52-2		
7757-79-1		
7758-98-7		
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HMIS Rating:	Health	Flammability	Physical Hazard	<b>Personal Protection</b>
	2	0	2	В
NFPA Rating:	Health	Fire Hazard	Instability	Special Hazard
	2	0	2	OX

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Revision Date: 8 August 2023