

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Lloyd & McCown Woody Plant Basal Salt Mixture

PRODUCT NUMBER: L154

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 laboratory and further manufacturing use

RESTRICTIONS ON USE: only. 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)

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.

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 Sulfate	7778-80-5	43.04%	No exposure limits established by OSHA or ACGIH	
Ammonium Nitrate	6484-52-2	17.39 %	No exposure limits established by OSHA or ACGIH	
EDTA, Disodium Salt, Dihydrate	6381-92-6	1.62 %	No exposure limits established by OSHA or ACGIH	
Calcium Nitrate, Tetrahydrate	13477-34-4	16.77 %	No exposure limits established by OSHA or ACGIH	
Cupric Sulfate, Pentahydrate	7758-99-8	0.011 %	NIOSH REL: 1 mg/m ³	
Ingredient	CAS Number	Percent	Hazardous	
Ferrous Sulfate, Heptahydrate	7782-63-0	1.21%	ACGIH TLV: 1 mg (Fe)/m ³	

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Sodium Molybdate (VI), Dihydrate	10102-40-6	0.011 %	OSHA PEL: 5 mg (Mo)/m³; ACGIH TLV: 0.5 mg (Mo)/m³
Manganese Sulfate, Monohydrate	10034-96-5	0.97 %	OSHA PEL: 5 mg (Mn)/m ³ ; ACGIH TLV: 0.2 mg (Mn)/m ³
Boric Acid	10043-35-3	0.27 %	ACGIH TLV: 2 mg/m ³

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 If swallowed, wash out mouth with water. Never give anything May cause irritation if swallowed 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, 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 blurred vision. ensure thorough rinsing. Get medical attention if irritation

persists.

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

Skin Contact

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: 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 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.

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Incompatibilities: No data available

Recommended Storage Temperature: 2-8°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m³

Threshold Limit Values (TLVs): Sodium Molybdate(VI), Dihydrate: 0.5 mg (Mo)/m³

Ferrous Sulfate, Heptahydrate: 1 mg (Fe)/m³ Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/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 Yellow Powder

pH (2.30 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: 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

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Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: No data available

Conditions to Avoid: Moisture, excessive heat

Incompatibles Materials: Strong reducing agents, powdered metals, strong acids

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides, sodium oxides, calcium

oxides

11. TOXICOLOGICAL INFORMATION

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

Specific Target Organ

Single Exposure: No data available

Toxicity:

Repeated Exposure: No data available

Target Organs: None identified

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 No data available Persistence and Degradability: 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

Product No: L154 Page 4 of 6 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:

SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients:

CAS No.

Ammonium Nitrate 6484-52-2

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute 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.

Ammonium Nitrate 6484-52-2 Calcium Nitrate 10124-37-5

Pennsylvania Right to Know Components:

CAS No.

Ammonium Nitrate 6484-52-2 Ferrous Sulfate 7782-63-0

16. OTHER INFORMATION

HMIS Rating:

NFPA Rating:

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

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