# PhytoTechnology Laboratories®

# SAFETY DATA SHEET

### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Lloyd & McCown Woody Plant Basal Salt Mixture

PRODUCT NUMBER: L154

COMPANY INFO: PhytoTechnology 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 NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by *Phyto*Technology Laboratories® are intended for research and laboratory 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.

# 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	17.38 %	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 %	No exposure limits established by OSHA or ACGIH	
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.011 %	OSHA PEL: 5 mg (Mo)/m <sup>3</sup> ; ACGIH TLV: 5 mg (Mo)/m <sup>3</sup>	
Manganese Sulfate, Monohydrate	10034-96-5	0.97 %	OSHA PEL: 5 mg (Mn)/m <sup>3</sup>	
Boric Acid	10043-35-3	0.27 %	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.

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 Safely remove victim to fresh air. If not breathing, institute

tract

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.** 

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

May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to blurred vision. Get medical attention if irritation

persists.

Skin Contact Irritating. May cause reddening, Wash area thoroughly with soap and water. Remove and wash

itching or inflammation. 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 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 monoxide, carbon dioxide, nitrogen 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.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: 2 to 6 °C

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

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:

n-octanol/water):

No data available

Flammability (solid, gas): No data available

Partition coefficient:

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 Incompatibles Materials: Strong oxidizing agents

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

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### 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 Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

Irritation, sneezing, gastrointestinal upset

Overexposure:

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)

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

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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: Yes – Manganese compound of concentration >1.0 %

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Chronic Health Hazard

# 16. OTHER INFORMATION

**HMIS Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2	*	0	2
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
2	0	2	OX

**NFPA Rating:** 

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.

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