

MATERIAL SAFETY DATA SHEET

Luster Leaf Products, Inc.
2220 Techcourt
Woodstock, IL 60098
815-337-5560
815-337-5567 fax
800-327-4635

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Material Name: Soil Test Kit, N Test Reagent (1601, 1605, 1609, 1610,1611,1613)
 (Total contents = 275 mg.)

Ingredients	CAS No.	%	TLV(ACGIH)
Lactose Monohydrate	54044-51-5	CA 79.8%	
Tartaric Acid	87-69-4	CA 12%	
Manganese Sulphate	10034-96-5	CA 4%	
Sulfanilic Acid	121-57-3	CA 2%	
N.I. Naphthylethylene Diamine Dihydrochloride	1465-25-4	CA 1%	
Zinc Metal Powder	7440-66-6	CA 1%	
Magnesium Stearate	557-04-0	CA 0.2%	

Ingredients not precisely identified are proprietary or nonhazardous.
 Values are not product specifications. GT = greater than, LT = less than,
 CA = approximately.

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	Unknown
Vapor Pressure (mmHg at 20 C):	Unknown
Solubility in water:	Very soluble
pH:	Unknown
Specific Gravity:	Unknown
Appearance and odor:	White, odorless powder

SECTION 3 - FIRE AND EXPLOSION DATA

Flash Point and method:	N/A
Autoignition:	No
Flammable limits (STP):	N/A
Extinguishing Media:	N/A
Special fire fighting protective equipment:	None
Unusual fire and explosion hazards:	May evolve toxic fumes in fire.

SECTION 4 - REACTIVITY DATA (Soil Test Kit, N continued)

Stability:	Stable under normal conditions.
Incompatibility (materials to avoid):	Oxidizers
Hazardous decomposition products:	N/A
Hazardous polymerization:	Will not occur.

SECTION 5 - HEALTH HAZARD DATA

Emergency First Aid Procedures - Seek medical assistance for further treatment, observation and support if necessary.

Ingestion: *Wash* out mouth thoroughly with water and drink plenty of water. In severe cases, seek attention.

Eye Contact: *Irrigate* thoroughly with water. If discomfort persists, obtain medical attention.

Skin Contact: *Wash* thoroughly with soap and water.

Inhalation: *Remove* from exposure. In severe cases, obtain medical attention.

Other: *None* known.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Ventilation: Normal room ventilation.

Respiratory protection: None required for recommended use.

Protective clothing: Rubber or plastic gloves.

Eye protection: Goggles or glasses.

Other protective equipment: None required.

Hygienic work practices: Do not smoke while using, as test results may be affected. Wash hands thoroughly after use.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be taken in case material is spilled or released:

Wash away spillage with water.

Waste Disposal Method:

Wash away spillage with water.

Precautions to be taken in handling or storing:

Store tightly closed in original container in dry conditions. Avoid extremes of temperature.

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SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Material Name: Soil Test Kit, Phosphorus (P) Test Reagent (1601, 1605, 1609, 1610,1611,1613)
 (Total contents = 570 mg.)

Ingredients	CAS No.	%	TLV(ACGIH)
Sodium Sulphate, Anhydrous	7757-82-6	CA 65.5%	
Potassium Hydrogen Sulphate	7790-62-7	CA 25%	
Ascorbic Acid	50-81-7	CA 7%	
Ammonium Molybdate	12054-85-2	CA 2%	
Magnesium Stearate	557-04-0	CA .5%	

Ingredients not precisely identified are proprietary or nonhazardous.

Values are not product specifications. GT = greater than, LT = less than,
 CA = approximately.

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	Unknown
Vapor Pressure (mmHg at 20 C):	Unknown
Solubility in water:	Very soluble
pH:	Unknown
Specific Gravity:	Unknown
Appearance and odor:	White, odorless powder
Sodium Sulfate, Potassium Hydrogen Sulfate	Causes color change

SECTION 3 - FIRE AND EXPLOSION DATA

Flash Point and method:	N/A
Autoignition:	No
Flammable limits (STP):	N/A
Extinguishing Media:	N/A
Special fire fighting protective equipment:	None
Unusual fire and explosion hazards:	May evolve toxic fumes in fire.

SECTION 4 - REACTIVITY DATA

Stability:	Stable under normal conditions.
Incompatibility (materials to avoid):	N/A
Hazardous decomposition products:	N/A
Hazardous polymerization:	Will not occur.

SECTION 5 - HEALTH HAZARD DATA (Soil Test Kit, pH continued)

Emergency First Aid Procedures - Seek medical assistance for further treatment, observation and support if necessary.

Ingestion:	<i>Wash</i> out mouth thoroughly with water and drink plenty of water. In severe cases, seek attention.
Eye Contact:	<i>Irrigate</i> thoroughly with water. If discomfort persists, obtain medical attention.
Skin Contact:	<i>Wash</i> thoroughly with soap and water.
Inhalation:	<i>Remove</i> from exposure. In severe cases, <i>obtain medical attention</i> .
Other:	<i>None</i> known.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Ventilation:	Normal room ventilation.
Respiratory protection:	None required for recommended use.
Protective clothing:	Rubber or plastic gloves.
Eye protection:	Goggles or glasses.
Other protective equipment:	None required.
Hygienic work practices:	Do not smoke while using, as test results may be affected. Wash hands thoroughly after use.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be taken in case material is spilled or released:

Wash away spillage with water.

Waste Disposal Method:

Wash away spillage with water.

Precautions to be taken in handling or storing:

Store tightly closed in original container in dry conditions. Avoid extremes of temperature.

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SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Material Name: Soil Test Kit, Potash (K) Test Reagent (1601, 1605, 1609, 1610, 1611
 (Total contents = 285 mg.)

Ingredients	CAS No.	%	TLV(ACGIH)
Lactose Monohydrate	64044-51-5	GT 99%	
Bismark Brown R	5421-66-9	CA .2%	
Sodium Tetraphenylborate	143-66-8	CA .5%	
Magnesium Stearate	557-04-0	CA .1%	

Ingredients not precisely identified are proprietary or nonhazardous.
 Values are not product specifications. GT = greater than, LT = less than,
 CA = approximately.

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	Unknown
Vapor Pressure (mmHg at 20 C):	Unknown
Solubility in water:	Very soluble
pH:	Unknown
Specific Gravity:	Unknown
Appearance and odor:	White, odorless powder

SECTION 3 - FIRE AND EXPLOSION DATA

Flash Point and method:	N/A
Autoignition:	No
Flammable limits (STP):	N/A
Extinguishing Media:	N/A
Special fire fighting protective equipment:	None
Unusual fire and explosion hazards:	None

SECTION 4 - REACTIVITY DATA

Stability:	Stable under normal conditions.
Incompatibility (materials to avoid):	None
Hazardous decomposition products:	N/A
Hazardous polymerization:	Will not occur.

SECTION 5 - HEALTH HAZARD DATA (Soil Test Kit, K continued)

Emergency First Aid Procedures - Seek medical assistance for further treatment, observation and support if necessary.

Ingestion:	<i>Ingestion</i> in large amounts may cause irritation. Wash out mouth thoroughly with water. In severe cases, obtain attention.
Eye Contact:	<i>Irrigate</i> thoroughly with water. If discomfort persists, obtain attention.
Skin Contact:	<i>Wash</i> thoroughly with soap and water.
Inhalation:	<i>Remove</i> from exposure. In severe cases, obtain <i>medical attention</i> .
Other:	<i>None</i> known.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Ventilation:	Normal room ventilation.
Respiratory protection:	None required for recommended use.
Protective clothing:	Rubber or plastic gloves.
Eye protection:	Goggles or glasses.
Other protective equipment:	None required.
Hygienic work practices:	Do not smoke while using, as test results may be affected. Wash hands thoroughly after use.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be taken in case material is spilled or released:

Wash away spillage with water.

Waste Disposal Method:

Wash away spillage with water.

Precautions to be taken in handling or storing:

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SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Material Name: Soil Test Kit, pH Test Reagent (1601, 1605, 1609, 1610, 1612, 1615, 1611, 1613, D1R05A)
 (Total contents = 685 mg.)

Ingredients	CAS No.	%	TLV(ACGIH)
Barium Sulfate	7727-43-7	GT 99%	
Methyl Red	845-10-3	CA .025%	
Bromothymol Blue	34722-90-2	CA .05%	

Ingredients not precisely identified are proprietary or nonhazardous.
 Values are not product specifications. GT = greater than, LT = less than,
 CA = approximately.

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: Unknown
 Vapor Pressure (mmHg at 20 C): Unknown
 Solubility in water: Insoluble
 pH: Unknown
 Specific Gravity: Unknown
 Appearance and odor: White, odorless powder

SECTION 3 - FIRE AND EXPLOSION DATA

Flash Point and method: N/A
 Autoignition: No
 Flammable limits (STP): N/A
 Extinguishing Media: N/A
 Special fire fighting protective equipment: None
 Unusual fire and explosion hazards: May evolve toxic fumes in fire.

SECTION 4 - REACTIVITY DATA

Stability: Stable under normal conditions.
 Incompatibility (materials to avoid): Oxidizers
 Hazardous decomposition products: N/A
 Hazardous polymerization: Will not occur.

SECTION 5 - HEALTH HAZARD DATA (Soil Test Kit, pH continued)

Emergency First Aid Procedures - Seek medical assistance for further treatment, observation and support if necessary.

Ingestion: Drink plenty of water. Seek medical advice.
Eye Contact: Irrigate with water until dispersed.
Skin Contact: Wash thoroughly with soap and water.
Inhalation: Clear airways and seek medical advice.
Other: None known.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Ventilation: Normal room ventilation.
Respiratory protection: None required for recommended use.
Protective clothing: Rubber or plastic gloves.
Eye protection: Goggles or glasses.
Other protective equipment: None required.
Hygienic work practices: Do not smoke while using, as test results may be affected. Wash hands thoroughly after use.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be taken in case material is spilled or released:

Wash away spillage with water.

Waste Disposal Method:

Wash away spillage with water.

Precautions to be taken in handling or storing:

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