

Robinson
KTC

REC'D JAN 21 2004 MSDS 3834

MATERIAL SAFETY DATA SHEET
LaMOTTE COMPANY
PO BOX 329 - CHESTERTOWN - MARYLAND - 21620
TELEPHONE # FOR INFORMATION 410-778-3100
24 Hour Emergency Number (CHEM-TEL) 800-255-3824

1. PRODUCT IDENTIFICATION
pH Indicator Solution

Code Nr. 5701

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
N/A					

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Bromocresol Green	76-60-8	<0.01
Bromocresol Purple	115-40-2	<0.01
Cresol Red	602-48-2	<0.01
Magnifloc (non-ionic polyacrylamide)	N/A	<0.01
Water to 100%		

4. PHYSICAL DATA

Appearance: Blue-green Liquid
Solubility in Water: Soluble Odor: None Boiling Point: Unknown Melt. Point: N/A
Vapor Pressure: Unknown Vapor Density: Unknown pH: 7

5. FIRE AND EXPLOSION DATA

Flash Point (method used) N/A Flammable Limit: LEL: N/A UEL: N/A
Extinguishing Media: Not a fire hazard
HMIS Hazard: Health - 0 Flammability - 0 Reactivity - 0 Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least
Special Fire Fighting Procedures:
N/A
Unusual Fire & Explosion Hazard:
N/A

6. REACTIVITY DATA

Stability: Conditions to avoid: N/A
☒ Stable Incompatibility (Materials to avoid):
N/A
☐ Unstable Hazardous Decomposition Products: N/A

7. HEALTH HAZARD DATA

Toxicity: Unknown
Primary Route of Entry: ☐ Inhalation ☐ Skin ☒ Ingestion Carcinogenicity: ☒ None ☐ NTP
☐ OSHA ☐ IARC
Other Health Related Comments:
Target Organs: N/A
Signs and symptoms of exposure:
N/A
Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water. Consult physician.
Ingestion: Drink water. Consult physician.
Inhalation:
N/A
Skin Contact:
Wash with soap and water.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak:
Mop up and wash down drain with excess water.
Disposal:
Pour down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☐ Gloves ☒ Eye Protection ☐ N/A ☒ Other: Lab Coat
Ventilation ☒ Normal ☐ Mechanical ☐ Respiratory Protection
Work/Hygienic Practices: N/A

11. SPECIAL PRECAUTIONS

N/A
DATE: 12/15/99 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.
† This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.

MATERIAL SAFETY DATA SHEET

LaMOTTE COMPANY
PO BOX 329 - CHESTERTOWN - MARYLAND - 21620
TELEPHONE # FOR INFORMATION 410-778-3100
24 Hour Emergency Number (CHEM-TEL) 800-285-3924

1. PRODUCT IDENTIFICATION

Nitrogen Indicator Powder

Code Nr. 5703

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL C 5 mg/cubic m dust as Mn	TLV C 5 mg/cubic m dust as Mn
Manganous Sulfate Monohydrate	10034-96-5	7785-R7-7	1.5	N/E	10 mg/cubic m
Zinc Dust	7440-66-6		6	N/E	10 mg/cubic m
Barium Sulfate	7727-43-7		63	10 mg/cubic m (dust)	10 mg/cubic m (dust)
Sulfanilamide	63-74-1		<1	N/E	N/E
N-1-Naphthyl-ethylenediamine dihydrochloride	1465-25-4		<1	N/E	N/E

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Sugar	57-50-1	28

4. PHYSICAL DATA

Appearance: Off white Powder
Solubility in Water: Partial
Vapor Pressure: N/A
Boiling Point: N/A
Melt. Point: Unknown
Odor: None
pH: 6 (0.1g/10mL water)
Vapor Density: N/A
Flammable Limit: LEL: N/A UEL: N/A

5. FIRE AND EXPLOSION DATA

Flash Point (method used): N/A
Extinguishing Media: Not a fire hazard
HMIS Hazard: Health - 1 Flammability - 0 Reactivity - 0
Special Fire Fighting Procedures: N/A
Unusual Fire & Explosion Hazard: N/A
Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

6. REACTIVITY DATA

Stability: Conditions to avoid: Heat, moisture
☒ Stable Incompatibility (Materials to avoid):
Strong acids
☐ Unstable Hazardous Decomposition Products: N/A

7. HEALTH HAZARD DATA

Toxicity: Unknown
Primary Route of Entry: ☒ Inhalation ☒ Skin ☒ Ingestion ☒ None ☐ NTP
OSHA IARC
Other Health Related Comments: Both manganese sulfate and sulfanilamide are possible mutagens; mutagens can cause heritable genetic damage.
Target Organs: N/A
Signs and symptoms of exposure: Harmful by dust inhalation and if swallowed. May cause skin irritation.

Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush thoroughly with water. Consult physician if irritation persists.
Ingestion: Drink water. Consult a physician.
Inhalation: Remove to fresh air.
Skin Contact: Flush with water. Wash with soap and water.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak: Small quantity: Sweep up, dissolve in water and flush down drain with excess water. Large quantity: Sweep up. Place in clean, dry, closed container. Send to approved landfill or to hazardous waste disposal.
Disposal: Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☒ Gloves ☒ Eye Protection ☐ N/A ☒ Other: Lab Coat
Ventilation: ☐ Normal ☒ Mechanical ☐ Respiratory Protection
Work/Hygienic Practices: Avoid contact with skin and clothing and inhalation of dust. Wash after handling.

11. SPECIAL PRECAUTIONS

Store tightly closed, away from heat & moisture.
DATE: 12/20/2000
The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.
This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.

MATERIAL SAFETY DATA SHEET
LaMOTTE COMPANY
 PO BOX 329 - CHESTERTOWN - MARYLAND - 21620
 TELEPHONE # FOR INFORMATION 410-778-3100
 24 Hour Emergency Number (CHEM-TEL) 800-255-3824

1. PRODUCT IDENTIFICATION

Phosphorus Indicator Solution

Code Nr. 5705

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Acetic Acid	64-19-7		12	10 ppm	25 mg/cubic m
Sodium Molybdate dihydrate	10102-40-6		2.5	5 mg/cubic m as Mo	5 mg/cubic m as Mo

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water to 100%		

4. PHYSICAL DATA

Appearance: Clear Colorless Liquid
 Solubility in Water: Soluble Odor: Vinegar Boiling Point: Unknown Melt. Point: N/A
 Vapor Pressure: Unknown Vapor Density: Unknown pH: 4

5. FIRE AND EXPLOSION DATA

Flash Point (method used) N/A Flammable Limit: LEL: N/A UEL: N/A
 Extinguishing Media: Not a fire hazard
 HMIS Hazard: Health - 1 Flammability - 0 Reactivity - 0 Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least
 Special Fire Fighting Procedures:
 N/A
 Unusual Fire & Explosion Hazard:
 N/A

6. REACTIVITY DATA

Stability: Conditions to avoid: Heat
☒ Stable Incompatibility (Materials to avoid):
 Strong alkali, sulfuric acid, metals
☐ Unstable
 Hazardous Decomposition Products: N/A

7. HEALTH HAZARD DATA

Toxicity: oral rat LD50: 4250 mg/kg for sodium molybdate dihydrate solid
 Primary Route of Entry: ☒ Inhalation ☒ Skin ☐ Ingestion Carcinogenicity: ☒ None ☐ NTP
☐ OSHA ☐ IARC
 Other Health Related Comments:
 Target Organs: N/A
 Signs and symptoms of exposure:
 Vapors and liquid cause irritation to eyes, skin, and respiratory system. Harmful if swallowed.
 Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Consult physician if irritation persists.
 Ingestion: Rinse out mouth. Drink plenty of water. Consult a physician.
 Inhalation:
 Remove to fresh air.
 Skin Contact:
 Flush skin thoroughly. Wash with soap and water.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak:
 Ventilate area. Avoid breathing vapor. Neutralize with sodium bicarbonate. Mop up carefully and pour down drain with excess water.
 Disposal:
 Flush down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☒ Gloves ☒ Eye Protection ☐ N/A ☒ Other: Lab Coat
 Ventilation ☒ Normal ☐ Mechanical ☐ Respiratory Protection
 Work/Hygienic Practices: Avoid contact with skin. Use with adequate ventilation.

11. SPECIAL PRECAUTIONS

N/A
 DATE: 1/13/98 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.
 + This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.

MATERIAL SAFETY DATA SHEET
LaMOTTE COMPANY
PO BOX 329 - CHESTERTOWN - MARYLAND - 21820
TELEPHONE # FOR INFORMATION 410-778-3100
24 Hour Emergency Number (CHEM-TEL) 800-255-3824

1. PRODUCT IDENTIFICATION

Potassium Extracting Solution

Code Nr. 5707

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Acetic Acid	64-19-7		1.5	10 ppm	25 mg/cubic.m

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Sodium Acetate	6131-90-4	5
Water to 100%		

4. PHYSICAL DATA

Appearance: Clear Colorless Liquid

Solubility in Water: Soluble **Odor:** Vinegar **Boiling Point:** Unknown **Melt. Point:** N/A

Vapor Pressure: Unknown **Vapor Density:** Unknown **pH:** 5

5. FIRE AND EXPLOSION DATA

Flash Point (method used): N/A **Flammable Limit: LEL:** N/A **UEL:** N/A

Extinguishing Media: Not a fire hazard

HMS Hazard: Health - 0 Flammability - 0 Reactivity - 0 Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Special Fire Fighting Procedures:

N/A

Unusual Fire & Explosion Hazard:

N/A

6. REACTIVITY DATA

Stability: Conditions to avoid: N/A

☒ **Stable** **Incompatibility (Materials to avoid):** N/A

☐ **Unstable** **Hazardous Decomposition Products:** CO_x

7. HEALTH HAZARD DATA

Toxicity: Non-toxic

Primary Route of Entry: ☐ Inhalation ☒ Skin **Carcinogenicity:** ☒ None ☐ NTP
☐ Ingestion ☐ N/A ☐ OSHA ☐ IARC

Other Health Related Comments:

Target Organs: N/A

Signs and symptoms of exposure:
May irritate eyes and skin.

Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush thoroughly with water.

Ingestion: Drink 1 - 2 glasses of water. Consult a physician.

Inhalation:
N/A

Skin Contact:
Flush with water. Wash with soap and water.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak:
Mop up and flush down drain with water.

Disposal:
Pour down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☒ Gloves ☒ Eye Protection ☐ N/A ☐ Other: Lab Coat

Ventilation: ☒ Normal ☐ Mechanical ☐ Respiratory Protection

Work/Hygienic Practices: N/A

11. SPECIAL PRECAUTIONS

N/A

DATE: 7/9/98 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.

† This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.

MATERIAL SAFETY DATA SHEET
LaMOTTE COMPANY
 PO BOX 329 - CHESTERTOWN - MARYLAND - 21620
 TELEPHONE # FOR INFORMATION 410-778-3100
 24 Hour Emergency Number (CHEM-TEL) 800-255-3924

1. PRODUCT IDENTIFICATION
Potassium Test Solution

Code Nr. 5709

2. HAZARDOUS INGREDIENTS

NAME	CAS #	TSCA #	%	PEL	TLV
Hyamine 3500 (disinfectant liquid), which contains:	N/A		0.1	N/E	N/E
N-Alkyl (C12-16)-N,N-dimethyl-N-benzylammonium chloride	68424-85-1		<0.1	N/E	N/E
Ethanol	64-17-5		<0.1	1000ppm	1000ppm

3. NON-HAZARDOUS INGREDIENTS EXCEPT WATER (7732-18-5)

NAME	CAS #	%
Water to 100%		

4. PHYSICAL DATA

Appearance: Clear Colorless Liquid
 Solubility in Water: Soluble Odor: None Boiling Point: ~212 deg F Melt. Point: N/A
 Vapor Pressure: Unknown Vapor Density: Unknown pH: 5

5. FIRE AND EXPLOSION DATA

Flash Point (method used) N/A Flammable Limit: LEL: N/A UEL: N/A
 Extinguishing Media: Not a fire hazard
 HMIS Hazard: Health - 0 Flammability - 0 Reactivity - 0 Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least
 Special Fire Fighting Procedures:
 N/A
 Unusual Fire & Explosion Hazard:
 N/A

6. REACTIVITY DATA

Stability: Conditions to avoid: N/A
☒ Stable Incompatibility (Materials to avoid):
 N/A
☐ Unstable Hazardous Decomposition Products: N/A

7. HEALTH HAZARD DATA

Toxicity: Unknown
 Primary Route of Entry: ☐ Inhalation ☒ Skin ☐ Carcinogenicity: ☒ None ☐ NTP
☒ Ingestion ☐ N/A ☐ OSHA ☐ IARC
 Other Health Related Comments:
 Target Organs: N/A
 Signs and symptoms of exposure:
 N/A
 Medical Condition Aggravated by Exposure: N/A

8. EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush thoroughly with water.
 Ingestion: Drink plenty of water.
 Inhalation:
 N/A
 Skin Contact:
 Flush thoroughly with water.

9. SPILL AND DISPOSAL PROCEDURES

Spill and Leak:
 Mop up and wash down drain with excess water.
 Disposal:
 Pour down drain with excess water. Dispose according to federal, state and local regulations.

10. PRECAUTIONARY MEASURES

In Handling: ☐ Gloves ☒ Eye Protection ☐ N/A ☐ Other:
 Ventilation ☒ Normal ☐ Mechanical ☐ Respiratory Protection
 Work/Hygienic Practices: N/A

11. SPECIAL PRECAUTIONS

DATE: 6/4/96 The above information is believed to be correct but does not claim to be all inclusive and should be used only as a guide.
 † This is a toxic chemical subject to reporting requirements of section 313 of EPCRA and 40CFR372.