

SB48358  
V#062363

## SAFETY DATA SHEET

#6363

### SECTION 1 - Identification of the substance or mixture and of the supplier

#### SECTION 1.1 - Product Identifier

Product form: Mixture, Green Capsule  
Product name: Soil Test Kit, pH Test Reagent  
Product code: 1601, 1605, 1609, 1610, 1612, 1615, 16015, 16019

#### SECTION 1.2 - Recommended usage of mixture

Soil pH testing

#### SECTION 1.3 - Supplier details

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

#### SECTION 1.4 - Emergency telephone number

(314)-776-6555

### SECTION 2 - Hazards identification

#### SECTION 2.1 - Classification of the substance or mixture

Classification (GHS-US): Not Classified

#### SECTION 2.2 - Label elements

GHS-US labeling: No labeling applicable

#### SECTION 2.3 - Other hazards

No additional information available

#### SECTION 2.4 - Unknown acute toxicity

No data available

### SECTION 3 - Composition/information on ingredients

## Mixture

Ingredient	Identifier	%	Classification (GHS-US)
Barium Sulfate	(CAS No.) 7727-43-7	GT 99%	Not Classified
Methyl Red	(CAS No.) 845-10-3	LT 1%	Not Classified
Bromothymol Blue	(CAS No.) 34722-90-2	LT 1%	Not Classified

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

## SECTION 4 - First aid measures

### SECTION 4.1 - First aid measures by route of exposure

- General: Seek medical assistance for further treatment, observation and support if necessary.
- Inhalation: *Remove* from exposure. In severe cases, *obtain medical attention*.
- Skin contact: *Wash* thoroughly with soap and water.
- Eye contact: *Irrigate* thoroughly with water. If discomfort persists, obtain medical attention.
- Ingestion: *Wash* out mouth thoroughly with water and drink plenty of water. In severe cases, seek attention.

### SECTION 4.2 - Most important symptoms and effects, acute and delayed

- Symptoms/injuries Not expected to present a significant hazard under expected conditions of normal use.
- Acute symptoms None identified
- Chronic symptoms None identified

### SECTION 4.3 - Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5 - Firefighting measures

### SECTION 5.1 - Extinguishing media

- Suitable Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable Do not use a heavy water stream.

### SECTION 5.2 - Special hazards arising from substance/mixture

May evolve toxic fumes in fire.

### SECTION 5.3 - Firefighter precautions

#### Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when



fighting any chemical fire.

Protection during firefighting

Wear self-contained breathing apparatus if necessary.

## **SECTION 6 - Accidental release measures**

SECTION 6.1 - Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas.

For personal protection see section 8.

SECTION 6.2 - Environmental precautions

No data available.

SECTION 6.3 - Methods and material for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 6.4 -

For disposal see section 13

## **SECTION 7 - Handling and storage**

SECTION 7.1 - Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into account before additional processing occurs. Provide additional exhaust ventilation at places where dust is formed.

SECTION 7.2 - Conditions for safe storage, including any incompatibilities

Storage conditions: Keep product in a dry and well-ventilated place.

Incompatible products: None known.

Incompatible materials: Sources of ignition.

## **SECTION 8 - Exposure controls/personal protection**

SECTION 8.1 - Control parameters

No additional information

SECTION 8.2 - Exposure controls

Personal protective equipment

Avoid all unnecessary exposure

Hand protection

Wash hands thoroughly after using product.

Eye protection

See Section 4 if exposure occurs.

Respiratory

See Section 4 if exposure occurs.

Other information

When using, do not eat, drink, or smoke

## **SECTION 9 - Physical and chemical properties**

Appearance	Powder
Color	White
Odor	No data available
Odor threshold	No data available
pH	7
Relative evaporation rate	No data available
Melting point	Melting point/range:1,580 C (2,876 F)
Freezing point	Melting point/range:1,580 C (2,876 F)
Boiling point	1,600 C (2,912 F) at 1,013 hPa (760 mmHg)
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	4,400 g/cm <sup>3</sup> at 20 C (68 F)
Density	4,400 g/cm <sup>3</sup> at 20 C (68 F)
Solubility	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available

## SECTION 10 - Stability and reactivity

### SECTION 10.1 - Reactivity

No data available

### SECTION 10.2 - Chemical stability

Stable under recommended storage conditions

### SECTION 10.3 - Possibility of hazardous reactions

No data available

### SECTION 10.4 - Conditions to avoid

No data available

### SECTION 10.5 - Incompatible materials

Strong oxidizing agents, aluminum, phosphorus

### SECTION 10.6 - Hazardous decomposition products

No data available

In the event of fire, see Section 5

## SECTION 11 - Toxicological information



Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
Potential adverse human health effects and symptoms	
RTECS: CR0600000	

Prolonged inhalation may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due to bioaccumulation.

Damage to the lungs:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Chronic symptoms	No data available

## SECTION 12 - Ecological Information

### SECTION 12.1 - Toxicity

No additional information available

### SECTION 12.2 - Persistence and degradability

Not established

### SECTION 12.3 - Bioaccumulative potential

Not established

### SECTION 12.4 - Mobility in soil

No additional information available

### SECTION 12.5 - Other adverse effects

No additional information available

## SECTION 13 - Disposal considerations

### SECTION 13.1 - Waste treatment methods

Waste disposal recommendations: Dispose in safe manner in accordance with local/national

regulations.  
Ecology- waste materials: No data available.

**SECTION 14 - Transport information**

In accordance with DOT  
No dangerous good in sense of transport regulations

**SECTION 15 - Regulatory information**

SARA 302 Components  
No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 302

SARA 313 Components  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title 3 Section 313

SARA 311/312 Hazards  
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS No.
Barium Sulfate	7727-43-7
Sodium 2-(p-(dimethylamino)phenylazo)benzoate	845-10-3
Bromothymol Blue sodium salt	34722-90-2

Pennsylvania Right To Know Components

	CAS No.
Barium Sulfate	7727-43-7
Sodium 2-(p-(dimethylamino)phenylazo)benzoate	845-10-3
Bromothymol Blue sodium salt	34722-90-2

New Jersey Right To Know Components

	CAS No.
Barium Sulfate	7727-43-7
Sodium 2-(p-(dimethylamino)phenylazo)benzoate	845-10-3
Bromothymol Blue sodium salt	34722-90-2

California Prop. 65 Components  
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16 - Other information**

SDS Prepared: 8/13/2015

The information herein is give in good faith but no warranty, expressed or implied, is made.



# SAFETY DATA SHEET

## SECTION 1 - Identification of the substance or mixture and of the supplier

### SECTION 1.1 - Product Identifier

Product form: Mixture, Purple Capsule  
Product name: Soil Test Kit, Nitrogen (N) Test Reagent  
Product code: 1601, 1605, 1609, 1610, 16016, 16019

### SECTION 1.2 - Recommended usage of mixture

Soil Nitrogen content testing

### SECTION 1.3 - Supplier details

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

### SECTION 1.4 - Emergency telephone number

(314)-776-6555

## SECTION 2 - Hazards identification

### SECTION 2.1 - Classification of the substance or mixture

Classification (GHS-US): Not Classified

### SECTION 2.2 - Label elements

GHS-US labeling: No labeling applicable

### SECTION 2.3 - Other hazards

No additional information available

### SECTION 2.4 - Unknown acute toxicity

No data available

## SECTION 3 - Composition/Information on Ingredients

## Mixture

Ingredient	CAS Identifier	%	Classification (GHS-US)
Lactose Monohydrate	54044-51-5	CA 80%	Not Classified
Tartaric Acid	87-69-4	CA 12%	Not Classified
Manganese Sulphate	10034-96-5	LT 5%	Not Classified
Sulfanilic Acid	121-57-3	LT 3%	Not Classified
N.I. Naphylethylene Diamine Dihydrochloride	1465-25-4	LT 2%	Not Classified
Zinc Metal Powder	7440-66-6	LT 2%	Not Classified
Magnesium Stearate	557-04-0	LT 1%	Not Classified

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

## SECTION 4 - First aid measures

### SECTION 4.1 - First aid measures by route of exposure

General: Seek medical assistance for further treatment, observation and support if necessary.

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

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

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

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

### SECTION 4.2 - Most important symptoms and effects, acute and delayed

Symptoms/injuries Not expected to present a significant hazard under expected  
conditions of normal use.

Acute symptoms None identified

Chronic symptoms None identified

### SECTION 4.3 - Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5 - Firefighting measures

### SECTION 5.1 - Extinguishing media

Suitable Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Do not use a heavy water stream.

### SECTION 5.2 - Special hazards arising from substance/mixture

May evolve toxic fumes in fire.



SECTION 5.3 - Firefighter precautions

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Protection during firefighting

Wear self-contained breathing apparatus if necessary.

**SECTION 6 - Accidental release measures**

SECTION 6.1 - Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas.  
For personal protection see section 8.

SECTION 6.2 - Environmental precautions

No data available.

SECTION 6.3 - Methods and material for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 6.4 -

For disposal see section 13

**SECTION 7 - Handling and storage**

SECTION 7.1 - Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into account before additional processing occurs. Provide additional exhaust ventilation at places where dust is formed.

SECTION 7.2 - Conditions for safe storage, including any incompatibilities

Storage conditions: Keep product in a dry and well-ventilated place.  
Incompatible products: None known.  
Incompatible materials: Sources of ignition.

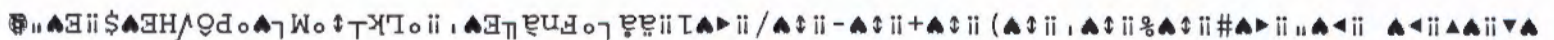
**SECTION 8 - Exposure controls/personal protection**

SECTION 8.1 - Control parameters

No additional information

SECTION 8.2 - Exposure controls

Personal protective equipment Avoid all unnecessary exposure  
Hand protection Wash hands thoroughly after using product.



Eye protection	See Section 4 if exposure occurs.
Respiratory	See Section 4 if exposure occurs.
Other information	When using, do not eat, drink, or smoke

## SECTION 9 - Physical and chemical properties

Appearance	Powder
Color	White
Odor	No data available
Odor threshold	No data available
pH	No data available
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Density	No data available
Solubility	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available

## SECTION 10 - Stability and reactivity

### SECTION 10.1 - Reactivity

No data available

### SECTION 10.2 - Chemical stability

Stable under recommended storage conditions

### SECTION 10.3 - Possibility of hazardous reactions

No data available

### SECTION 10.4 - Conditions to avoid

No data available

### SECTION 10.5 - Incompatible materials

Strong oxidizing agents





**SECTION 13 - Disposal considerations**

SECTION 13.1 - Waste treatment methods

Waste disposal recommendations: Dispose in safe manner in accordance with local/national regulations.  
Ecology- waste materials: No data available

**SECTION 14 - Transport information**

In accordance with DOT  
No dangerous good in sense of transport regulations

**SECTION 15 - Regulatory information**

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 302

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title 3 Section 313

SARA 311/312 Hazards

No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 311/312

Massachusetts Right To Know Components

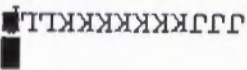
	CAS No.
Lactose Monohydrate	54044-51-5
Tartaric Acid	87-69-4
Manganese Sulphate	10034-96-5
Sulfanilic Acid	121-57-3
N.I. Naphylethylene Diamine Dihydrochloride	1465-25-4
Zinc Metal Powder	7440-66-6
Magnesium Stearate	557-04-0

Pennsylvania Right To Know Components

	CAS No.
Lactose Monohydrate	54044-51-5
Tartaric Acid	87-69-4
Manganese Sulphate	10034-96-5
Sulfanilic Acid	121-57-3
N.I. Naphylethylene Diamine Dihydrochloride	1465-25-4
Zinc Metal Powder	7440-66-6
Magnesium Stearate	557-04-0

New Jersey Right To Know Components

	CAS No.
Lactose Monohydrate	54044-51-5





Tartaric Acid	87-69-4
Manganese Sulphate	10034-96-5
Sulfanilic Acid	121-57-3
N.I. Naphthylethylene Diamine Dihydrochloride	1465-25-4
Zinc Metal Powder	7440-66-6
Magnesium Stearate	557-04-0

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16 - Other information**

SDS Prepared: 8/13/2015

The information herein is give in good faith but no warranty, expressed or implied, is made.

# SAFETY DATA SHEET

## SECTION 1 - Identification of the substance or mixture and of the supplier

### SECTION 1.1 - Product Identifier

Product form: Mixture, Blue Capsule  
Product name: Soil Test Kit, Phosphorus (P) Test Reagent  
Product code: 1601, 1605, 1609, 1610, 16017, 16019

### SECTION 1.2 - Recommended usage of mixture

Soil phosphorus content testing

### SECTION 1.3 - Supplier details

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

### SECTION 1.4 - Emergency telephone number

(314)-776-6555

## SECTION 2 - Hazards Identification

### SECTION 2.1 - Classification of the substance or mixture

Classification (GHS-US) : Not Classified

### SECTION 2.2 - Label elements

GHS-US labeling: No labeling applicable

### SECTION 2.3 - Other hazards

No additional information available

### SECTION 2.4 - Unknown acute toxicity

No data available

## SECTION 3 - Composition/information on ingredients



## Mixture

Ingredient	CAS Identifier	%	Classification (GHS-US)
Sodium Sulphate, Anhydrous	7757-82-6	CA 65.5%	Not Classified
Potassium Hydrogen Sulphate	7790-62-7	CA 25%	Not Classified
Ascorbic Acid	50-81-7	LT 8%	Not Classified
Ammonium Molybdate	12054-85-2	LT 3%	Not Classified
Magnesium Stearate	557-04-0	LT 1%	Not Classified

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

## SECTION 4 - First aid measures

### SECTION 4.1 - First aid measures by route of exposure

General: Seek medical assistance for further treatment, observation and support if necessary.

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

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

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

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

### SECTION 4.2 - Most important symptoms and effects, acute and delayed

Symptoms/injuries Not expected to present a significant hazard under expected  
conditions of normal use.

Acute symptoms None identified

Chronic symptoms None identified

### SECTION 4.3 - Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5 - Firefighting measures

### SECTION 5.1 - Extinguishing media

Suitable Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Do not use a heavy water stream.

### SECTION 5.2 - Special hazards arising from substance/mixture

May evolve toxic fumes in fire.

### SECTION 5.3 - Firefighter precautions

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Protection during firefighting

Wear self-contained breathing apparatus if necessary.

**SECTION 6 - Accidental release measures**

SECTION 6.1 - Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas.  
For personal protection see section 8.

SECTION 6.2 - Environmental precautions

No data available.

SECTION 6.3 - Methods and material for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 6.4 -

For disposal see section 13

**SECTION 7 - Handling and storage**

SECTION 7.1 - Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into account before additional processing occurs. Provide additional exhaust ventilation at places where dust is formed.

SECTION 7.2 - Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep product in a dry and well-ventilated place.
Incompatible products:	None known.
Incompatible materials:	Sources of ignition.

**SECTION 8 - Exposure controls/personal protection**

SECTION 8.1 - Control parameters

No additional information

SECTION 8.2 - Exposure controls

Personal protective equipment	Avoid all unnecessary exposure
Hand protection	Wash hands thoroughly after using product.
Eye protection	See Section 4 if exposure occurs.
Respiratory	See Section 4 if exposure occurs.
Other information	When using, do not eat, drink, or smoke





## SECTION 11 - Toxicological information

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
Potential adverse human health effects and symptoms	

Damage to the lungs:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Chronic symptoms	No data available

## SECTION 12 - Ecological information

### SECTION 12.1 - Toxicity

No additional information available

### SECTION 12.2 - Persistence and degradability

Not established

### SECTION 12.3 - Bioaccumulative potential

Not established

### SECTION 12.4 - Mobility in soil

No additional information available

### SECTION 12.5 - Other adverse effects

No additional information available

## SECTION 13 - Disposal considerations

### SECTION 13.1 - Waste treatment methods



Waste disposal recommendations: Dispose in safe manner in accordance with local/national regulations.

Ecology- waste materials: No data available

**SECTION 14 - Transport Information**

In accordance with DOT  
No dangerous good in sense of transport regulations

**SECTION 15 - Regulatory Information**

SARA 302 Components  
No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 302

SARA 313 Components  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title 3 Section 313

SARA 311/312 Hazards  
No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 311/312

Massachusetts Right To Know Components

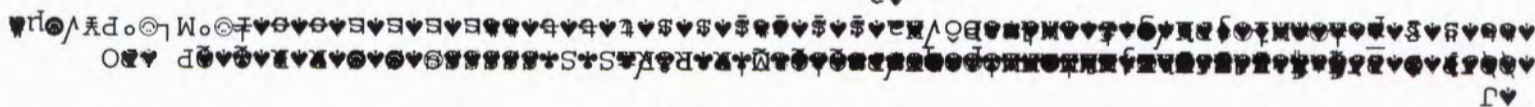
	CAS No.
Sodium Sulphate, Anhydrous	7757-82-6
Potassium Hydrogen Sulphate	7790-62-7
Ascorbic Acid	50-81-7
Ammonium Molybdate	12054-85-2
Magnesium Stearate	557-04-0

Pennsylvania Right To Know Components

	CAS No.
Sodium Sulphate, Anhydrous	7757-82-6
Potassium Hydrogen Sulphate	7790-62-7
Ascorbic Acid	50-81-7
Ammonium Molybdate	12054-85-2
Magnesium Stearate	557-04-0

New Jersey Right To Know Components

	CAS No.
Sodium Sulphate, Anhydrous	7757-82-6
Potassium Hydrogen Sulphate	7790-62-7
Ascorbic Acid	50-81-7
Ammonium Molybdate	12054-85-2



California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16 - Other Information**

SDS Prepared: 8/13/2015

The information herein is give in good faith but no warranty, expressed or implied, is made.

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# SAFETY DATA SHEET

## SECTION 1 - Identification of the substance or mixture and of the supplier

### SECTION 1.1 - Product Identifier

Product form: Mixture, Orange Capsule

Product name: Soil Test Kit, Potash (K) Test Reagent

Product code: 1601, 1605, 1609, 1610, 16018, 16019

### SECTION 1.2 - Recommended usage of mixture

Soil Potash testing

### SECTION 1.3 - Supplier details

**Luster Leaf Products, Inc.**

**2220 Techcourt**

**Woodstock, IL 60098**

**815-337-5560**

**815-337-5567 fax**

**800-327-4635**

### SECTION 1.4 - Emergency telephone number

**(314)-776-6555**

## SECTION 2 - Hazards Identification

### SECTION 2.1 - Classification of the substance or mixture

Classification (GHS-US): Not Classified

### SECTION 2.2 - Label elements

GHS-US labeling: No labeling applicable

### SECTION 2.3 - Other hazards

No additional information available

### SECTION 2.4 - Unknown acute toxicity

No data available

## SECTION 3 - Composition/information on ingredients



Mixture

Ingredient	CAS Identifier	%	Classification (GHS-US)
Lactose Monohydrate	64044-51-5	GT 99%	Not Classified
Bismark Brown R	5421-66-9	LT 1%	Not Classified
Sodium Tetraphenylborate	143-66-8	LT 1%	Not Classified
Magnesium Stearate	557-04-0	LT 1%	Not Classified

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

**SECTION 4 - First aid measures**

SECTION 4.1 - First aid measures by route of exposure

- General: Seek medical assistance for further treatment, observation and support if necessary.
- Inhalation: *Remove* from exposure. In severe cases, *obtain medical attention.*
- Skin contact: *Wash* thoroughly with soap and water.
- Eye contact: *Irrigate* thoroughly with water. If discomfort persists, *obtain medical attention.*
- Ingestion: *Wash* out mouth thoroughly with water and drink plenty of water. In severe cases, seek attention.

SECTION 4.2 - Most important symptoms and effects, acute and delayed

- Symptoms/injuries Not expected to present a significant hazard under expected conditions of normal use.
- Acute symptoms None identified
- Chronic symptoms None identified

SECTION 4.3 - Indication of any immediate medical attention and special treatment needed

No additional information available

**SECTION 5 - Firefighting meaasures**

SECTION 5.1 - Extinguishing media

- Suitable Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable Do not use a heavy water stream.

SECTION 5.2 - Special hazards arising from substance/mixture

May evolve toxic fumes in fire.

SECTION 5.3 - Firefighter precautions

Firefighting instructions





Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Protection during firefighting

Wear self-contained breathing apparatus if necessary.

## **SECTION 6 - Accidental release measures**

SECTION 6.1 - Personal precautions, protective equipment, and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist, or gas.

For personal protection see section 8.

SECTION 6.2 - Environmental precautions

No data available.

SECTION 6.3 - Methods and material for containment and cleanup

Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 6.4 -

For disposal see section 13

## **SECTION 7 - Handling and storage**

SECTION 7.1 - Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into account before additional processing occurs. Provide additional exhaust ventilation at places where dust is formed.

SECTION 7.2 - Conditions for safe storage, including any incompatibilities

Storage conditions: Keep product in a dry and well-ventilated place.

Incompatible products: None known.

Incompatible materials: Sources of ignition.

## **SECTION 8 - Exposure controls/personal protection**

SECTION 8.1 - Control parameters

No additional information

SECTION 8.2 - Exposure controls

Personal protective equipment

Avoid all unnecessary exposure

Hand protection

Wash hands thoroughly after using product.

Eye protection

See Section 4 if exposure occurs.

Respiratory

See Section 4 if exposure occurs.

Other information

When using, do not eat, drink, or smoke

## SECTION 9 - Physical and chemical properties

Appearance	Powder
Color	White
Odor	No data available
Odor threshold	No data available
pH	No data available
Relative evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Density	No data available
Solubility	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available

## SECTION 10 - Stability and reactivity

### SECTION 10.1 - Reactivity

No data available

### SECTION 10.2 - Chemical stability

Stable under recommended storage conditions

### SECTION 10.3 - Possibility of hazardous reactions

No data available

### SECTION 10.4 - Conditions to avoid

No data available

### SECTION 10.5 - Incompatible materials

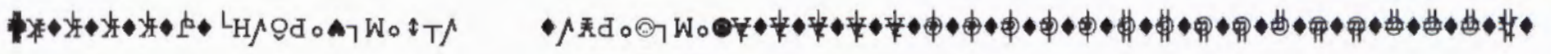
Strong oxidizing agents

### SECTION 10.6 - Hazardous decomposition products

No data available

In the event of fire, see Section 5

## SECTION 11 - Toxicological information





Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	No data available
Aspiration hazard	No data available
Potential adverse human health effects and symptoms	

Damage to the lungs: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic symptoms No data available

## SECTION 12 - Ecological Information

### SECTION 12.1 - Toxicity

No additional information available

### SECTION 12.2 - Persistence and degradability

Not established

### SECTION 12.3 - Bioaccumulative potential

Not established

### SECTION 12.4 - Mobility in soil

No additional information available

### SECTION 12.5 - Other adverse effects

Other information: No additional information available

## SECTION 13 - Disposal considerations

### SECTION 13.1 - Waste treatment methods

Waste disposal recommendations: Dispose in safe manner in accordance with local/national regulations.

Ecology- waste materials: No data available

#### **SECTION 14 - Transport Information**

In accordance with DOT

No dangerous good in sense of transport regulations

#### **SECTION 15 - Regulatory Information**

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 302

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title 3 Section 313

SARA 311/312 Hazards

No chemicals in this material are subject to the reporting requirements of SARA Title 3, Section 311/312

Massachusetts Right To Know Components

	CAS No.
Lactose Monohydrate	64044-51-5
Bismark Brown R	5421-66-9
Sodium Tetraphenylborate	143-66-8
Magnesium Stearate	557-04-0

Pennsylvania Right To Know Components

	CAS No.
Lactose Monohydrate	64044-51-5
Bismark Brown R	5421-66-9
Sodium Tetraphenylborate	143-66-8
Magnesium Stearate	557-04-0

New Jersey Right To Know Components

	CAS No.
Lactose Monohydrate	64044-51-5
Bismark Brown R	5421-66-9
Sodium Tetraphenylborate	143-66-8
Magnesium Stearate	557-04-0

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

#### **SECTION 16 - Other Information**

SDS Prepared: 8/13/2015

The information herein is give in good faith but no warranty, expressed or implied, is made.



## Section 1 Chemical Product and Company Information

Page E1 of E2



**Aldon  
Corporation**

221 Rochester Street  
Avon, NY 14414  
(585) 228-6177

**CHEMTREC 24 Hour Emergency**  
Phone Number (800) 424-9300  
For laboratory use only  
Not for drug, food or household use.

Product: METHYLENE BLUE SOLUTION (LOEFFLER'S)

Synonyms: Loeffler's Methylene Blue Stain

## Section 2 Hazards Identification

Signal word: DANGER

Pictograms: GHS02 / GHS07 / GHS08 / GHS06

Target organs: Eyes, Central nervous system, Liver, Kidneys



GHS Classification:

Flammable liquid (Category 2)

Acute toxicity, inhalation (Category 3)

Skin irritation (Category 2)

Eye irritation (Category 2B)

STOT-SE (Category 2)

STOT-SE (Category 3)

GHS Label information: Hazard statement:

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H336: May cause drowsiness or dizziness.

H371: May cause damage to organs.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face 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.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P332+P313: If skin irritation occurs: Get medical attention.

P337+P313: If eye irritation persists: Get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Ethyl alcohol, 95% denatured*	64-17-5	99.45%	200-578-6
Methylene blue chloride	61-73-4	0.5%	200-515-2
Potassium hydroxide	1310-58-3	0.04%	215-181-3
Water	7732-18-5	Balance	231-791-2
<b>*Denaturants:</b>			
Isopropyl alcohol	67-63-0	--	200-661-7
Methanol	67-56-1	--	200-659-6
Methyl isobutyl ketone	108-10-1	--	203-550-1

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

(2012 EMERGENCY RESPONSE GUIDEBOOK, (PHH50-ERG2012), GUIDE # 127)



**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Protect from light.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Ethanol	STEL: 1000 ppm / 1880 mg/m <sup>3</sup> (A3)	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

Appearance: Clear, blue liquid.	Evaporation rate ( Butyl acetate = 1): Ca 2*	Partition coefficient: (n-octanol / water): Low Pow: - 32*
Odor: Mild characteristic odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: 400°C (752°F)*
Odor threshold: Data not available.	Explosion limits: Lower / Upper: 4.0%(V) / 20.0%(V)*	Decomposition temperature: Data not available.
pH: Data not available.	Vapor pressure (mm Hg): Ca 50 @ 20°C*	Viscosity: Data not available.
Melting / Freezing point: -114°C (-173°F)*	Vapor density (Air = 1): Ca 1.5*	Molecular formula: Mixture
Boiling point: 74-80°C (165.2-176°F)*	Relative density (Specific gravity): 0.7919-0.7955°C @ 60/60°F*	Molecular weight: Mixture
Flash point: 5°C (41°F)*	Solubility(ies): Soluble in water.	[200 Proof Ethanol]

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizers, inorganic acids and halogens.

**Hazardous decomposition products:** Oxides of carbon.

## Section 11 Toxicological Information

**Acute toxicity:** Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC classified:** Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

**Ingestion:** Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

**Skin:** Contact with skin causes irritation defatting on prolonged contact.

**Eyes:** Contact with eyes may cause blindness.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: KQ630000 [Ethanol]

## Section 12 Ecological Information

**Toxicity to fish:** Onconrhynechus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

**Toxicity to algae:** Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

**Persistence and degradability:** No data available **Bioaccumulative potential:** No data available

**Mobility in soil:** No data available **PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information

**UN/NA number:** UN1170 **Shipping name:** Ethanol solution

**Hazard class:** 3

**Packing group:** II

**Reportable Quantity:** 5,000 lbs (2270 kg)

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

**ERG Guide #** 127

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	D\$1	NDSL	WHMIS Classification
Ethanol	Listed	Not listed	D001	Listed	Not listed	B2; D2B
Methanol	Listed	5,000 lbs.	U154	Listed	Not listed	B2; D1B; D2A; D2B
Isopropanol	Listed	Not listed	Not listed	Listed	Not listed	B2; D2B

## Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

**Revision Date:** January 22, 2014

**Supersedes:** August 30, 2013