

SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **Nutrient Agar**
- Product Part Number: **7145**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For the cultivation of a wide variety of microorganisms. Conforms to FDA/BAM formulation.
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Acumedia Manufacturers, Inc.
- Address of Manufacturer: 740 East Shiawassee
Lansing, Michigan 48912
USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: (800) 424-9300
Outside USA and Canada: +1 (703) 527-3887
-

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Not classified as hazardous for supply
- Classification (67/548/EEC, 1999/45/EC) (OSHA 29 CFR 1910.1200)
- Not classified as hazardous for supply
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Signal Word: None
- Symbols: None
- Hazard phrases
None
- Precautionary Phrases
Keep container tightly closed.
Do not breathe dust
Do not get in eyes, on skin, or on clothing.

2.3 Other hazards

- Mildly irritating to skin and eyes
 - Mildly irritating to respiratory system
-

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

- This product does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- Contact with skin
 - Remove contaminated clothing
 - Wash affected area with plenty of soap and water
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Contaminated clothing should be laundered before reuse
- Contact with eyes
 - If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes
 - Irrigate eyes thoroughly while lifting eyelids
 - Seek medical advice if necessary
- Ingestion
 - Rinse mouth with water (do not swallow)
 - Never make an unconscious person vomit or drink fluids
 - If medical advice is needed, have product container or label at hand.
- Inhalation
 - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure
- Decomposition products may include carbon oxides
- May form explosive dust/air mixtures
- See Section 10

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
 - Wear chemical protection suit and positive-pressure breathing apparatus
 - Wear protective clothing as per section 8
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources
- Use non-sparking hand tools

SECTION 6 Accidental release measures (continued)

- Avoid raising dust
- Remove contaminated clothing
- Wear protective clothing as per section 8
- Wash thoroughly after dealing with spillage

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- Avoid scattering in the environment

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Place in sealable container
- Seal containers and label them
- Seek expert advice for removal and disposal of all contaminated materials and wastes
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 7
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Do not breathe dust
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation
- Eyewash bottles should be available
- Wash hands thoroughly after using this substance

7.2 Conditions for safe storage, including any incompatibilities

- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances
- Keep away from acid

7.3 Specific end use(s)

- For the cultivation of a wide variety of microorganisms. Conforms to FDA/BAM formulation.
-

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product

8.2 Exposure controls

- Eyewash bottles should be available
- Engineering controls should be provided to prevent the need for ventilation
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for NIOSH (US) or EN 166.

SECTION 8 Exposure controls/personal protection (continued)

- Wear suitable protective clothing



Gloves



Safety
Glasses



Lab Coat

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Homogenous, free-flowing powder, Beige
- Odor: No information available
- pH: Not applicable
- Melting point/Range: No information available
- Boiling Point/Range: Not determined
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Completely soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: No information available

9.2 Other information

- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid contact with moisture
- Keep away from heat and sources of ignition

10.5 Incompatible materials

- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- No experimental data available
 - Contact with skin
 - May cause redness and irritation
 - Contact with eyes
 - May cause redness and irritation
 - Ingestion
 - May cause irritation of the throat
 - Inhalation
 - May cause coughing
 - Carcinogenicity
 - No evidence of carcinogenic effects
 - Mutagenicity
 - No evidence of mutagenic effects
 - Teratogenicity
 - No information available
-

SECTION 12 Ecological information

12.1 Toxicity

- No information available

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects

- To the best of our knowledge, the properties of this material have not been fully evaluated
 - On available data, substance is not harmful to the environment
-

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorized waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning
- Refer to manufacturer/supplier for information on recovery/recycling

13.2 Classification (REACH)

- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
-

SECTION 14 Transport information

14.1 UN Number

Not classified as hazardous for transport

14.2 UN Proper Shipping Name

- Not applicable

14.3 Transport hazard class(es)

- Not applicable

14.4 Packing group

- Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not Classified

14.8 DOT

- Proper Shipping Name: Not applicable

- DOT UN No.: Not applicable

- DOT Hazard Class: Not applicable

- DOT Packing Group: Not applicable

14.9 Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable

- ADR UN No.: Not applicable

- ADR Hazard Class: Not applicable

- ADR Packing Group: Not applicable

- Tunnel Code: Not applicable

14.10 Sea (IMDG)

- Proper Shipping Name: Not applicable

- IMDG UN No.: Not applicable

- IMDG Hazard Class: Not applicable

- IMDG Pack Group.: Not applicable

14.11 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable

- ICAO Un No.: Not applicable

- ICAO Hazard Class: Not applicable

- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010 and OSHA Hazard Communication Standard 29 CFR 1910.1200.

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

15.2 Chemical Safety Assessment

- No information available

15.3 United States Regulatory Information

SECTION 15 Regulatory information (continued)

SARA 302 Components

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

SARA 313 Components

SARA 313: The material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

No SARA Hazards

SECTION 16 Other information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.

SAFETY DATA SHEET

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

SECTION 1.1 - Product Identifier

Product form: Clear, colorless liquid. A pungent, vinegary odor.
Product name: Soil Test Kit, K1 (Potassium Extractant Solution)
Product code: 1661, 1662, 1663 and 1665

SECTION 1.2 - Recommended usage of mixture

Soil Potassium 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

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 Acetate Trihydrate	6131-90-4	3%	
Acetic Acid	64-19-7		
Deionized Water	7732-18-5		

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 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

Wash away spillage with water.

SECTION 6.4 -

For disposal see section 13

SECTION 7 - Handling and storage

SECTION 7.1 - Precautions for safe handling

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

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	Colorless liquid
Color	Clear
Odor	Pungent, vinegaey odor
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	Miscible in all proportions
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	Potential skin irritant
Serious eye damage/irritation	Eye irritant
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 Acetate Trihydrate	6131-90-4
Acetic Acid	64-19-7
Deionized Water	7732-18-5

Pennsylvania Right To Know Components

	CAS No.
Sodium Acetate Trihydrate	6131-90-4
Acetic Acid	64-19-7
Deionized Water	7732-18-5

New Jersey Right To Know Components

	CAS No.
Sodium Acetate Trihydrate	6131-90-4
Acetic Acid	64-19-7
Deionized Water	7732-18-5

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: 4/28/2016

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: Clear, colorless liquid. No discernible odor.

Product name: Soil Test Kit, K2 (Potash Reactant)

Product code: 1661, 1662, 1663 and 1665

SECTION 1.2 - Recommended usage of mixture

Soil Potash 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

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 Tetrphenylboron $\text{NaB}(\text{C}_6\text{H}_5)_4$	143-66-8	3%	Not Classified
Deionized Water	7732-18-5		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

Wash away spillage with water.

SECTION 6.4 -

For disposal see section 13

SECTION 7 - Handling and storage

SECTION 7.1 - Precautions for safe handling

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

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	Colorless liquid
Color	Clear
Odor	No discernible odor
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	Miscible in all proportions
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	Potential skin irritant
Serious eye damage/irritation	Eye irritant
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 Tetrphenylboron $\text{NaB}(\text{C}_6\text{H}_5)_4$	143-66-8
Deionized water	7732-18-5

Pennsylvania Right To Know Components

	CAS No.
Sodium Tetrphenylboron $\text{NaB}(\text{C}_6\text{H}_5)_4$	143-66-8
Deionized water	7732-18-5

New Jersey Right To Know Components

	CAS No.
Sodium Tetrphenylboron $\text{NaB}(\text{C}_6\text{H}_5)_4$	143-66-8
Deionized water	7732-18-5

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: 4/28/2016

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: Clear, colorless liquid.

Product name: Soil Test Kit, N1 (Nitrogen Test Solution)

Product code: 1661, 1662, 1663 and 1665

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

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)
Deionized Water	7732-18-5		

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: N/A

Inhalation: N/A

Skin contact: N/A

Eye contact: N/A

Ingestion: N/A

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 N/A

Unsuitable N/A

SECTION 5.2 - Special hazards arising from substance/mixture

N/A

SECTION 5.3 - Firefighter precautions

Firefighting instructions
N/A

Protection during firefighting
N/A

SECTION 6 - Accidental release measures

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

N/A

SECTION 6.2 - Environmental precautions

No data available.

SECTION 6.3 - Methods and material for containment and cleanup

N/A

SECTION 6.4 -

For disposal see section 13

SECTION 7 - Handling and storage

SECTION 7.1 - Precautions for safe handling

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

SECTION 7.2 - Conditions for safe storage, including any incompatibilities

Storage conditions: Prevent from freezing

Incompatible products: None known.

Incompatible materials: N/A

SECTION 8 - Exposure controls/personal protection

SECTION 8.1 - Control parameters

No additional information

SECTION 8.2 - Exposure controls

Personal protective equipment	N/A
Hand protection	N/A
Eye protection	N/A
Respiratory	N/A
Other information	N/A

SECTION 9 - Physical and chemical properties

Appearance	Colorless liquid
Color	Clear
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	Miscible in all proportions
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

N/A

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: N/A

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.
Deionized Water	7732-18-5

Pennsylvania Right To Know Components

	CAS No.
Deionized Water	7732-18-5

New Jersey Right To Know Components

	CAS No.
Deionized Water	7732-18-5

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: 4/28/2016

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: Solid white powder
Product name: Soil Test Kit, N2 (Nitrogen Color Developer)
Product code: 1661, 1662, 1663 and 1665

SECTION 1.2 - Recommended usage of mixture

Nitrogen color developer

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

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
Calcium Sulphate (Ca SO ₄)	7778-18-9
Tartaric Acid (CHOH COOH ₂)	526-83-0
Manganous Sulphate (MnSO ₄ H ₂ O)	10034-96-5
Sulphanilic Acid	121-57-3
N-1 Naphthylethylene diamine dihydrochloride (C ₁₀ H ₇ NH CH ₂ CH ₂ NH ₂ 2HC1)	1465-25-4
Zinc Powder (Zn)	7440-66-6

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 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

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.
Calcium Sulphate (Ca SO ₄)	7778-18-9
Tartaric Acid (CHOH COOH ₂)	526-83-0
Manganous Sulphate (MnSO ₄ H ₂ O)	10034-96-5
Sulphanilic Acid	121-57-3
N-1 Naphthylethylene diamine dihydrochloride (C ₁₀ H ₇ NH CH ₂ CH ₂ NH ₂ 2HC1)	1465-25-4
Zinc Powder (Zn)	7440-66-6

Pennsylvania Right To Know Components

	CAS No.
Calcium Sulphate (Ca SO ₄)	7778-18-9
Tartaric Acid (CHOH COOH ₂)	526-83-0
Manganous Sulphate (MnSO ₄ H ₂ O)	10034-96-5
Sulphanilic Acid	121-57-3
N-1 Naphthylethylene diamine dihydrochloride (C ₁₀ H ₇ NH CH ₂ CH ₂ NH ₂ 2HC1)	1465-25-4
Zinc Powder (Zn)	7440-66-6

New Jersey Right To Know Components

	CAS No.
Calcium Sulphate (Ca SO ₄)	7778-18-9
Tartaric Acid (CHOH COOH ₂)	526-83-0
Manganous Sulphate (MnSO ₄ H ₂ O)	10034-96-5
Sulphanilic Acid	121-57-3

N-1 Naphthylethylene diamine dihydrochloride (C₁₀H₇NH CH₂CH₂NH₂2HC1)
Zinc Powder (Zn)

1465-25-4
7440-66-6

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: 4/18/2016

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: A pale yellow, odorless liquid.
Product name: Soil Test Kit, P1 (Phosphorus Extractant Solution)
Product code: 1661, 1662, 1663 and 1665

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

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
Ammonia Molybdate (NH ₄)Mo ₇ O ₂₄ ·4H ₂ O	12054-85-2		Not Classified
Bromocresol Green Indicator	76-60-8		Not Classified
Sulphuric Acid H ₂ SO ₄	7664-93-9	2%	
Deionized Water	7732-18-5		

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

Wash away spillage with water.

SECTION 6.4 -

For disposal see section 13

SECTION 7 - Handling and storage

SECTION 7.1 - Precautions for safe handling

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

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	Colorless liquid
Color	Clear
Odor	No discernible odor
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	Miscible in all proportions
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	Potential skin irritant
Serious eye damage/irritation	Eye irritant
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.
Ammonia Molybdate (NH ₄)Mo ₇ O ₂₄ 4H ₂ O	12054-85-2
Bromocresol Green Indicator	76-60-8
Sulphuric Acid H ₂ SO ₄	7664-93-9
Deionized Water	7732-18-5

Pennsylvania Right To Know Components

	CAS No.
Ammonia Molybdate (NH ₄)Mo ₇ O ₂₄ 4H ₂ O	12054-85-2
Bromocresol Green Indicator	76-60-8
Sulphuric Acid H ₂ SO ₄	7664-93-9
Deionized Water	7732-18-5

New Jersey Right To Know Components

	CAS No.
Ammonia Molybdate (NH ₄)Mo ₇ O ₂₄ 4H ₂ O	12054-85-2
Bromocresol Green Indicator	76-60-8
Sulphuric Acid H ₂ SO ₄	7664-93-9
Deionized Water	7732-18-5

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: 4/28/2016

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

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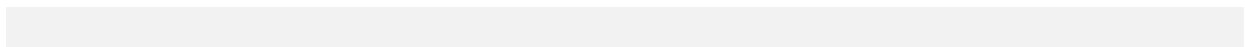
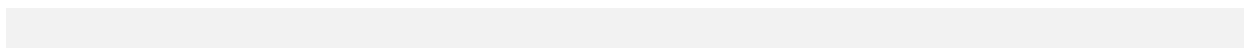
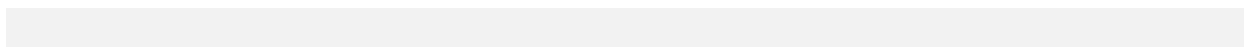
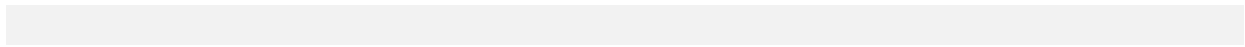
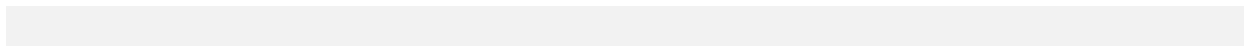
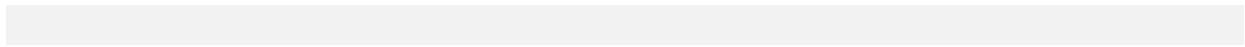
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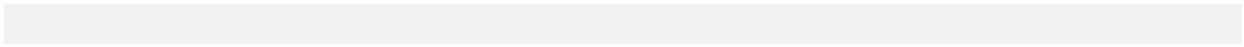
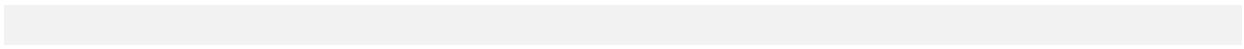
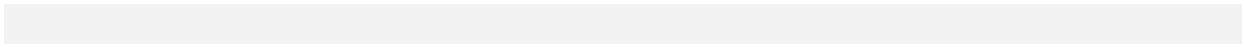
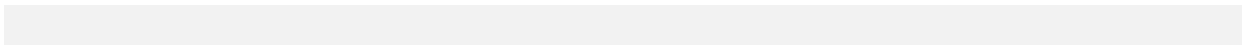
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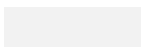
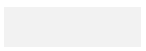
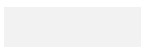
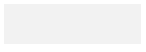
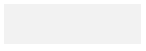
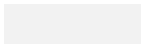
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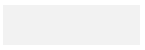
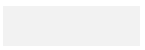
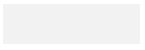
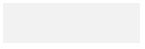
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SAFETY DATA SHEET

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

SECTION 1.1 - Product Identifier

Product form: Solid white powder
Product name: Soil Test Kit, P2 (Soil Phosphorus Testing Agent)
Product code: 1661, 1662, 1663 and 1665

SECTION 1.2 - Recommended usage of mixture

Soil Phosphorus Testing Agent

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

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)
L-Ascorbic Acid	50-81-7		

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 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

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.
L-Ascorbic Acid	50-81-7

Pennsylvania Right To Know Components

	CAS No.
L-Ascorbic Acid	50-81-7

New Jersey Right To Know Components

	CAS No.
L-Ascorbic Acid	50-81-7

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: 4/18/2016

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: A green colored solution with propanolic odor.
Product name: Soil Test Kit, pH (pH Indicator Solution)
Product code: 1661, 1662, 1663 and 1665

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

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	%	Classificatic
Methyl Red	493-52-7		
Bromothymol Blue	76-59-5		
Isopropol alcohol	67-63-0		
Deionized Water	7732-18-5		

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 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

Wash away spillage with water.

SECTION 6.4 -

For disposal see section 13

SECTION 7 - Handling and storage

SECTION 7.1 - Precautions for safe handling

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

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	A green colored solution
Color	Green
Odor	propanolic odor
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	Miscible in all proportions
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	Potential skin irritant
Serious eye damage/irritation	Eye irritant
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.
Methyl Red	493-52-7
Bromothymol Blue	76-59-5
Isopropol alcohol	67-63-0
Deionized Water	7732-18-5

Pennsylvania Right To Know Components

	CAS No.
Methyl Red	493-52-7
Bromothymol Blue	76-59-5
Isopropol alcohol	67-63-0
Deionized Water	7732-18-5

New Jersey Right To Know Components

	CAS No.
Methyl Red	493-52-7
Bromothymol Blue	76-59-5
Isopropol alcohol	67-63-0
Deionized Water	7732-18-5

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: 4/28/2016

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: Solid white powder
Product name: Soil Test Kit, PH2 (Settling agent)
Product code: 1661, 1662, 1663 and 1665

SECTION 1.2 - Recommended usage of mixture

Settling agent

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

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

Barium Sulphate

CAS Identifier

7727-43-7

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 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

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.
Barium Sulphate	7727-43-7

Pennsylvania Right To Know Components

	CAS No.
Barium Sulphate	7727-43-7

New Jersey Right To Know Components

	CAS No.
Barium Sulphate	7727-43-7

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: 4/18/2016

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

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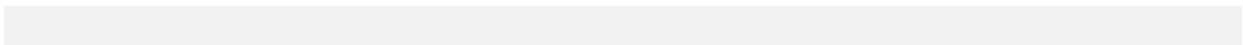
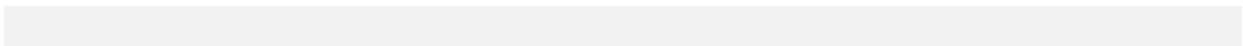
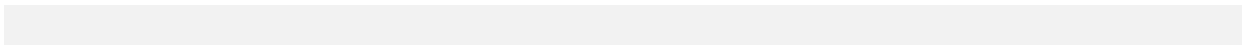
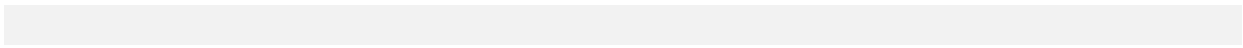
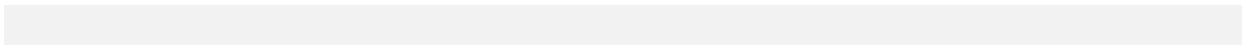
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Classification (GHS-US)



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Section 1 Identification

Page E1 of E2

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 Avon, NY 14414-9409
 (585) 226-6177

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

Product	SIMULATED BLOOD, TYPE A+
Synonyms	Simulated Blood, Type A Positive / Donor #1

Section 2 Hazards identification

Signal word: WARNING
Pictograms: GHS07
Target organs: Blood



GHS Classification:
 Acute toxicity, oral (Category 5)
 Skin irritation (Category 2)
 Eye irritation (Category 2A)

GHS Label information: Hazard statement(s):
 H303: May be harmful if swallowed.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.

Precautionary statement(s):

P264: Wash hands thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352: IF ON SKIN: Wash with plenty of water and soap.
 P332+P313: If skin irritation occurs: Get medical attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical attention.
 P312: Call a POISON CENTER or doctor if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	90.1%	231-791-2
Aluminum nitrate, nonahydrate	7784-27-2	9.3%	236-751-8 (anhydrous CAS # 13473-90-0)
Food Coloring	Mixture	0.6%	Mixture

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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS 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: 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: Use any media suitable for extinguishing supporting fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

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, well-ventilated area away from incompatible substances.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Aluminum nitrate	None established	None established	None established

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 and chemical properties

Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability and reactivity

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

Conditions to avoid: Excessive temperatures to cause evaporation.

Incompatible materials: Reducing agents, organic materials.

Hazardous decomposition products: Nitrogen oxides.

Section 11 Toxicological information

Acute toxicity: Aluminum nitrate: Oral-rat LD50: 3,671 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: Contact with skin may cause irritation.

Eyes: Causes serious eye irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Aluminum nitrate: BD1050000

Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2020 ERG Guide #: Not applicable

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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Aluminum nitrate, nonahydrate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other 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.

Section 1 Identification

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

Product	SIMULATED BLOOD, TYPE B-
Synonyms	Simulated Blood, Type B Negative / Donor #2

Section 2 Hazards identification

Signal word: WARNING
Pictograms: GHS07
Target organs: Blood



GHS Classification:
 Acute toxicity, oral (Category 5)
 Skin irritation (Category 2)
 Eye irritation (Category 2B)

GHS Label information: Hazard statement(s):
 H303: May be harmful if swallowed.
 H315: Causes skin irritation.
 H320: Causes eye irritation.

Precautionary statement(s):

P264: Wash hands thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352: IF ON SKIN: Wash with plenty of water and soap.
 P332+P313: If skin irritation occurs: Get medical attention.
 P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical attention.
 P312: Call a POISON CENTER or doctor if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	89.4%	231-791-2
Calcium nitrate, tetrahydrate	13477-34-4	10.0%	233-332-1
Food Coloring	Mixture	0.6%	Mixture

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: 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: 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: Use any media suitable for extinguishing supporting fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

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, well-ventilated area away from incompatible substances.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Calcium nitrate	None established	None established	None established

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 and chemical properties

Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability and reactivity

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

Conditions to avoid: Excessive temperatures to cause evaporation.

Incompatible materials: Ammonia, hydrozine and other reducing agents.

Hazardous decomposition products: Nitrogen oxides.

Section 11 Toxicological information

Acute toxicity: Calcium nitrate: Oral-rat LD50: 3,900 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: Contact with skin may cause irritation.

Eyes: Causes eye irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Calcium nitrate: EW3000000

Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2020 ERG Guide #: Not applicable

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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Calcium nitrate (solid)	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other 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.

Section 1 Identification

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 For laboratory and industrial use only.
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Product	SIMULATED BLOOD, TYPE AB+
Synonyms	Simulated Blood, Type AB Positive / Donor #3

Section 2 Hazards identification

Signal word: WARNING
Pictograms: GHS07
Target organs: Blood



GHS Classification:
 Acute toxicity, oral (Category 5)
 Skin irritation (Category 2)
 Eye irritation (Category 2A)

GHS Label information: Hazard statement(s):
 H303: May be harmful if swallowed.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.

Precautionary statement(s):

P264: Wash hands thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352: IF ON SKIN: Wash with plenty of water and soap.
 P332+P313: If skin irritation occurs: Get medical attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical attention.
 P312: Call a POISON CENTER or doctor if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	80.1%	231-791-2
Calcium nitrate, tetrahydrate	13477-34-4	10.0%	233-332-1
Aluminum nitrate, nonahydrate	7784-27-2	9.3%	236-751-8 (anhydrous CAS # 13473-90-0)
Food Coloring	Mixture	0.6%	Mixture

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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS 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: 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: Use any media suitable for extinguishing supporting fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

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, well-ventilated area away from incompatible substances.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Calcium nitrate	None established	None established	None established

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 and chemical properties

Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability and reactivity

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

Conditions to avoid: Excessive temperatures to cause evaporation.

Incompatible materials: Ammonia, hydrozine and other reducing agents.

Hazardous decomposition products: Nitrogen oxides.

Section 11 Toxicological information

Acute toxicity: Calcium nitrate: Oral-rat LD50: 3,900 mg/kg / **Aluminum nitrate:** Oral-rat LD50: 3,671 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: Contact with skin may cause irritation.

Eyes: Causes serious eye irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Calcium nitrate: EW3000000 / **Aluminum nitrate:** BD1050000

Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2020 ERG Guide # Not applicable

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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Calcium nitrate (solid)	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Aluminum nitrate, nonahydrate	Listed	Not listed	Not listed	Listed	Not listed	

Section 16 Other 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.

Section 1 Identification

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**CHEMTREC 24 Hour Emergency
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 For laboratory and industrial use only.
 Not for drug, food or household use.

Product	SIMULATED BLOOD, TYPE O-
Synonyms	Simulated Blood, Type O Negative / Donor #4

Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required
Pictograms: No symbol required
Target organs: None known

GHS Classification: None required
GHS Label information: Hazard statement: None required
Precautionary statement: None required

Supplemental information:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	>99%	231-791-2
Food Coloring	Mixture	0.6%	Mixture

Section 4 First aid measures

INGESTION: 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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

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, well-ventilated area away from incompatible substances.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	No components listed	None established	None established	None established

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 and chemical properties

Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability and reactivity

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

Conditions to avoid: Excessive temperatures to cause evaporation.

Incompatible materials: Strong oxidizers and reducing agents may destroy color.

Hazardous decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides.

Section 11 Toxicological information

Acute toxicity: Data not available
Skin corrosion/irritation: Data not available
Serious eye damage/irritation: Data not available
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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 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.
 Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Reproductive toxicity: Data not available
STOT-single exposure: Data not available
STOT-repeated exposure: Data not available
Aspiration hazard: Data not available
Potential health effects:
 Inhalation: May be harmful if inhaled.
 Ingestion: May be harmful if swallowed.
 Skin: Repeated or prolonged contact with skin may cause irritation.
 Eyes: Contact may cause irritation.
Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.
Additional information: RTECS #: Data not available

Section 12 Ecological information

Toxicity to fish: No data available
Toxicity to daphnia and other aquatic invertebrates: No data available
Toxicity to algae: No data available
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: Not applicable **Shipping name:** Not Regulated
Hazard class: Not applicable **Packing group:** Not applicable **Reportable Quantity:** No **Marine pollutant:** No
Exceptions: Not applicable **2020 ERG Guide #** Not applicable

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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components listed with the following agencies	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other 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.

Section 1 Identification

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 Not for drug, food or household use.

Product	SIMULATED ANTI-SERUM ANTI-A
Synonyms	Simulated Anti-A Serum / Anti-A Serum

Section 2 Hazards identification

Signal word: WARNING
Pictograms: No symbol required
Target organs: Liver

GHS Classification:
 Eye irritation (Category 2B)

GHS Label information: Hazard statement:
 H320: Causes eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical attention.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	91.99%	231-791-2
Sodium salicylate	54-21-7	8.00%	200-198-0
FD&C Blue #1 (C.I. No. 42090)	3844-45-9	0.001%	223-339-8

Section 4 First aid measures

INGESTION: 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: 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

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, well-ventilated area away from incompatible substances. Light sensitive.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium salicylate	Not established	Not established	Not established

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 and chemical properties

Appearance: Liquid. Clear blue. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability and reactivity

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

Conditions to avoid: Excessive temperatures which cause evaporation. Protect from light.

Incompatible materials: Strong oxidizers, strong acids.

Hazardous decomposition products: Carbon oxides, sodium oxides.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 11,625 mg/kg (acute toxicity estimate)

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Eyes-rabbit - mild 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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Not expected to be a health hazard.

Ingestion: May be harmful by ingestion.

Skin: Contact causes irritation.

Eyes: Contact may cause irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: VO5075000 [Sodium salicylate]

Section 12 Ecological information

Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 1,370 mg/l - 96 h [Sodium salicylate]

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2020 ERG Guide # Not applicable

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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium salicylate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other 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.

Section 1 Identification

Page E1 of E2

INNOVATING SCIENCE® by Aldon Corporation
 221 Rochester Street
 Avon, NY 14414-9409
 (585) 226-6177

"Cutting edge science for the classroom"

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

Product	SIMULATED ANTI-SERUM ANTI-B
Synonyms	Simulated Anti-B Serum / Anti-B Serum

Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required

Pictograms: No symbol required

Target organs: None known

GHS Classification: None required

GHS Label information: Hazard statement: None required

Precautionary statement: None required

Supplemental information:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	84.992%	231-791-2
Sodium sulfate	7757-82-6	15.000%	231-820-9
FD&C Yellow #5 (C.I. No. 19140)	1934-21-0	0.008%	217-699-5

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. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE TRANSIENT 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 CAUSE TRANSIENT 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: Use extinguishing agent suitable for type of surrounding fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

Section 1 Identification

Page E1 of E2

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

Product	SIMULATED ANTI-SERUM ANTI-RH
Synonyms	Simulated Anti-Rh Serum / Anti-Rh Serum

Section 2 Hazards identification

Signal word: WARNING
Pictograms: No symbol required
Target organs: Liver

GHS Classification:
 Eye irritation (Category 2B)

GHS Label information: Hazard statement:
 H320: Causes eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical attention.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	92.00%	231-791-2
Sodium salicylate	54-21-7	8.00%	200-198-0

Section 4 First aid measures

INGESTION: 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: 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

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: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

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: 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.

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, well-ventilated area away from incompatible substances. Light sensitive. Protect from light.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium salicylate	Not established	Not established	Not established

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 and chemical properties

Appearance: Clear liquid	Evaporation rate (Water = 1): <1	Partition coefficient: Data not available
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: Data not available.
pH: Data not available.	Vapor pressure (mm Hg): 14 (water)	Viscosity: Data not available.
Melting / Freezing point: Approximately 0°C (32°F) (water)	Vapor density (Air = 1): 0.7 (water)	Molecular formula: Mixture
Boiling point: Approximately 100°C (212°F) (water)	Relative density (Specific gravity): Approximately 1.0 (water)	Molecular weight: Mixture
Flash point: Data not available	Solubility(ies): Complete in water.	

Section 10 Stability and reactivity

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

Conditions to avoid: Excessive temperatures which cause evaporation. Light sensitive.

Incompatible materials: Strong oxidizers, strong acids.

Hazardous decomposition products: Carbon oxides, sodium oxides.

Section 11 Toxicological information

Acute toxicity: Acute toxicity estimate: Oral-rat LD50: 11,625 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Eyes-rabbit - 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: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: Prolonged contact may cause irritation and/or defatting of skin.

Eyes: Causes serious eye irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: VO5075000 [Sodium salicylate]

Section 12 Ecological information

Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 1,370 mg/l - 96 h [Sodium salicylate]

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2020 ERG Guide # Not applicable

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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium salicylate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

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