

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.

SECTION8 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



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 IdentifierProduct 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 - H	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:	estion: Wash out mouth thoroughly with water and drink	
	plenty of water. In severe cases, seek attention.	
SECTION 4.2 - N	Nost important symptoms and effects, acute and delayed	
Symptoms/injur	ies Not expected to present a significant hazard under expected conditions of normal use.	
Acute symptoms	None identified	
Chronic symptor	ns 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
рН	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
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration hazard
Potential adverse human health effects and symptoms

No data available Potential skin irritant Eye irritant No data available Not applicable Not applicable No data available No data available No data available No data available

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

CAS No.
5131-90-4
54-19-7
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 IdentifierProduct 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 Tetraphenylboron $N_aB(C_6H_5)_4$	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 - I	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:	<i>Irrigate</i> thoroughly with water. If discomfort persists, obtain medical attention.	
Ingestion:	estion: Wash out mouth thoroughly with water and drink	
	plenty of water. In severe cases, seek attention.	
SECTION 4.2 - I	Most important symptoms and effects, acute and delayed	
Symptoms/injur	ies Not expected to present a significant hazard under expected conditions of normal use.	
Acute symptoms	s None identified	
Chronic symptor	ms 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 - I	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
рН	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
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration hazard
Potential adverse human health effects and symptoms

No data available Potential skin irritant Eye irritant No data available Not applicable Not applicable No data available No data available No data available No data available

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 Tetraphenylboron N ₈ B(C ₆ H ₅) ₄	143-66-8
Deionized water	7732-18-5

Pennsylvania Right To Know Components	
	CAS No.
Sodium Tetraphenylboron NaB(C6H5)4	143-66-8
Deionized water	7732-18-5

New Jersey Right To Know Components	
	CAS No.
Sodium Tetraphenylboron N _a B(C ₆ 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 IdentifierProduct 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 mea	sures by route of exposure
General:	N/A	
Inhalation:	N/A	
Skin contact:	N/A	
Evo contact:	N/A	
Eye contact:	N/A	
Ingestion:	N/A	
SECTION 4.2 -	Most importa	nt symptoms and effects, acute and delayed
Symptoms/inju	ies	Not expected to present a significant hazard under expected
, , , ,		conditions of normal use.
Acute symptom	S	None identified
Chronic sympto	ms	None identified
		any immediate medical attention and special treatment needed
No additional in		
SECTION 5 - Fi	refighting m	easures
SECTION 5.1 -		media
Suitable	N/A	
Unsuitable	N/A	
SECTION 5.2 -	Special hazar	ds arising from substance/mixture
	N/A	
SECTION 5.3 -	Firefighter pre	ecautions

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
рН	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

Deionized Water

CAS No. 7732-18-5

New Jersey Right To Know Components

Deionized Water

CAS No. 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 IdentifierProduct form:Solid white powderProduct 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 SO4)	7778-18-9
Tartaric Acid (CHOH COOH ₂)	526-83-0
Manganous Sulphate (MnSO4H2O)	10034-96-5
Sulphanilic Acid	121-57-3
N-1 Naphthylethylene diamine dihydrochloride (C10H7NH CH2CH2NH22HC1)	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:	<i>Irrigate</i> 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/inju	ries Not expected to present a significant hazard under expected conditions of normal use.	
Acute symptom	s None identified	
Chronic sympto	ms None identified	
SECTION 4.3 - Indication of any immediate medical attention and special treatment needed		
No additional information available		
SECTION 5 - Fi	refighting measures	
	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
рН	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
Skin corrosion/irritation	No
Serious eye damage/irritation	No
Respiratory or skin sensitization	No
Germ cell mutagenicity	No
Carcinogenicity	No
Reproductive toxicity	No
Specific target organ toxicity (single exposure)	No
Specific target organ toxicity (repeated exposure)	No
Aspiration hazard	No
Potential adverse human health effects and symptoms	

No data available No data available No data available No data available Not applicable No data available No data available No data available No data available

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 SO4)	7778-18-9
Tartaric Acid (CHOH COOH ₂₎	526-83-0
Manganous Sulphate (MnSO₄H₂O)	10034-96-5
Sulphanilic Acid	121-57-3
N-1 Naphthylethylene diamine dihydrochloride (C10H7NH CH2CH2NH22HC1)	1465-25-4
Zinc Powder (Zn)	7440-66-6

Pennsylvania Right To Know Components

	CAS No.
Calcium Sulphate (Ca SO4)	7778-18-9
Tartaric Acid (CHOH COOH ₂)	526-83-0
Manganous Sulphate (MnSO4H2O)	10034-96-5
Sulphanilic Acid	121-57-3
N-1 Naphthylethylene diamine dihydrochloride (C10H7NH CH2CH2NH22HC1)	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 (MnSO₄H₂O)	10034-96-5
Sulphanilic Acid	121-57-3

N-1 Naphthylethylene diamine dihydrochloride (C10H7NH CH2CH2NH22HC1)	1465-25-4
Zinc Powder (Zn)	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 IdentifierProduct 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	%		Classificatic
Ammonia Molybdate (NH4)Mo7O244H20	12054-85-2			Not Classifi
Bromocresol Green Indicator	76-60-8			Not Classifi
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:	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/injur	ies Not expected to present a significant hazard under expected conditions of normal use.	
Acute symptoms	s None identified	
Chronic symptom	ms 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
рН	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
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration hazard
Potential adverse human health effects and symptoms

No data available Potential skin irritant Eye irritant No data available Not applicable No data available No data available No data available No data available No data available

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 (NH4)Mo7O244H20	12054-85-2
Bromocresol Green Indicator	76-60-8
Sulphuric Acid H ₂ SO ₄	7664-93-9
Deionized Water	7732-18-5

	CAS No.
Ammonia Molybdate (NH4)Mo7O244H20	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 T	o Know Components
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Pennsylvania Right To Know Components

Ammonia Molybdate (NH4)Mo7O244H20 Bromocresol Green Indicator Sulphuric Acid H2 SO4 Deionized Water CAS No. 12054-85-2 76-60-8 7664-93-9 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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SAFETY DATA SHEET

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

SECTION 1.1 - Product IdentifierProduct form:Solid white powderProduct 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 - 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:	Eye contact: Irrigate thoroughly with water. If discomfort persists,	
	obtain medical attention.	
Ingestion:	estion: Wash out mouth thoroughly with water and drink	
plenty of water. In severe cases, seek attention.		
SECTION 4.2 - I	Nost important symptoms and effects, acute and delayed	
Symptoms/injur	ies Not expected to present a significant hazard under expected conditions of normal use.	
Acute symptoms	s 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
рН	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
Skin corrosion/irritation	No
Serious eye damage/irritation	No
Respiratory or skin sensitization	No
Germ cell mutagenicity	No
Carcinogenicity	No
Reproductive toxicity	No
Specific target organ toxicity (single exposure)	No
Specific target organ toxicity (repeated exposure)	No
Aspiration hazard	No
Potential adverse human health effects and symptoms	

No data available No data available No data available No data available Not applicable No data available No data available No data available No data available

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

L-Ascorbic Acid

CAS No. 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 IdentifierProduct 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 - I	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 - I	Most important symptoms and effects, acute and delayed	
Symptoms/injur	ies Not expected to present a significant hazard under expected conditions of normal use.	
Acute symptoms	s None identified	
Chronic symptor	ms None identified	
SECTION 4.3 - Indication of any immediate medical attention and special treatment needed		
No additional in	formation available	
SECTION 5 - Firefighting measures		
SECTION 5.1 - I	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
рН	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
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Aspiration hazard
Potential adverse human health effects and symptoms

No data available Potential skin irritant Eye irritant No data available Not applicable No data available No data available No data available No data available No data available

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
Bromothymol Blue Isopropol alcohol	76-59-5 67-63-0

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 IdentifierProduct form:Solid white powderProduct 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/inju	
	conditions of normal use.
Acute symptom	
Chronic sympto	
	Indication of any immediate medical attention and special treatment needed
No additional in	formation available
SECTION 5 - Fi	irefighting measures
	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
рН	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
Skin corrosion/irritation	No
Serious eye damage/irritation	No
Respiratory or skin sensitization	No
Germ cell mutagenicity	No
Carcinogenicity	No
Reproductive toxicity	No
Specific target organ toxicity (single exposure)	No
Specific target organ toxicity (repeated exposure)	No
Aspiration hazard	No
Potential adverse human health effects and symptoms	

No data available No data available No data available No data available Not applicable No data available No data available No data available No data available

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

Barium Sulphate

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.



Classification (GHS-US)

%





GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

by Aldon Corporation 221 Rochester Street 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.

Synonyms Simulated Blood, Type A Positive / Donor #1 Section 2 Hazards identification Signal word: WARNING Pictograms: GHS07 Precautionary statement(s): P264: Wash hands thoroughly after handling. P264: Wash hands thoroughly after handling. P302+P332: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation catles attention. P362+P364: Take off contaminated clothing and wash it before reuse. P362+P364: Take off contaminated clothing attention. P362+P364: Take off contaminated clothing attention. P337+P313: If skin irritation catles attention. P312: Call a POISON CENTER or doctor if you feel unwell. GHS Label Information: Hazard statement(s): H303: May be harmful if swallowed. H315: Causes serious eye irritation. P312: Call a POISON CENTER or doctor if you feel unwell. H319: Causes serious eye irritation. P312: Call a POISON CENTER or doctor if you feel unwell.	Product SIMULATED BLOOD, TYPE A+	
Signal word: WARNING Precautionary statement(s): Pictograms: GHS07 P264: Wash hands thoroughly after handling. Target organs: Blood 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. P362+P364: Take off contaminated clothing and wash it before reuse. P362+P361+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P313: If eye irritation persists: Get medical attention. P312: Call a POISON CENTER or doctor if you feel unwell. P312: Call a POISON CENTER or doctor if you feel unwell. P312: Call a POISON CENTER or doctor if you feel unwell. H315: Causes skin irritation. P312: Call a POISON CENTER or doctor if you feel unwell.	Synonyms Simulated Blood, Type A Positive / Donor #1	
Pictograms: GHS07 P264: Wash hands thoroughly after handling. Target organs: Blood 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. P32+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. P312: Call a POISON CENTER or doctor if you feel unwell. P315: Causes skin irritation.	Section 2 Hazards identification	
	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.	 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.

Hazards not otherwise classified:

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

Section 3 C	Composition / information on	ingredients		
Chemical Name		CAS #	%	EINECS
Water Aluminum nitrate, nonah Food Coloring	nydrate	7732-18-5 7784-27-2 Mixture	90.1% 9.3% 0.6%	231-791-2 236-751-8 (anhydrous CAS # 13473-90-0) Mixture
Section 4 F	irst 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.

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 prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	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/MSHAapproved respirator.

approved respirator								
Section 9	Physical and chem	nical properties	5					
0 01	Data not available. able. nt: Approximately 0°C (32°F) (roximately 100°C (212°F) (v	(water) Relative water) Relative	pressure (mm Hg): 14 density (Air = 1): 0.7 (ta not available. pper: Data not available (water) water)): Approximately 1.0 (wate	Auto-ignitie Decompos Viscosity: Molecular f	•	e: Data not availab ure: Data not avail ble. re	
Section 10	Stability and react	ivitv			1			
Chemical stability	-		Hazardous polymeriza	tion: Will not occur.				
ncompatible mate	erials: Reducing agents,	, organic material	S.					
Hazardous decom	position products: Nitr	rogen oxides.						
		-						
Section 11	Toxicological infor	rmation						
Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No compon Ca Prop 65: This pr Reproductive toxi	nt of this product present ent of this product present ent of this product presen roduct does not contain a	at levels greater It at levels greate nt at levels greate	r than or equal to 0.1% is er than or equal to 0.1%	identified as a known or ar s identified as probable, po is identified as a carcinoge ornia to cause cancer or re	ssible or confirm n or potential c	med human card arcinogen by OS		
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STOT-repeated ex Aspiration hazard Potential health ef Inhalation: May be Ingestion: May be Skin: Contact with Eyes: Causes serii Signs and sympto not available. Exer Additional informa Section 12 Toxicity to fish: N	sure: Data not available posure: Data not available ffects: harmful if inhaled. harmful if swallowed. skin may cause irritation. ous eye irritation. oms of exposure: To the rcise appropriate procedu ation: RTECS #: Alumi Ecological informa lo data available	uble e best of our know ures to minimize p inum nitrate: BD ation	ootential hazards. 1050000	/sical and toxicological pro	perties have no	t been thorough	nly investigated. Sp	ecific data
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STOT-repeated ex Aspiration hazard Potential health ef Inhalation: May be Ingestion: May be Skin: Contact with Eyes: Causes serie Signs and sympto not available. Exer Additional informa Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to dapae: I Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal g	sure: Data not available posure: Data not available ffects: harmful if inhaled. harmful if swallowed. skin may cause irritation. ous eye irritation. ous eye irritation. oms of exposure: To the rcise appropriate procedu ation: RTECS #: Alumi Ecological informa lo data available a and other aquatic invo No data available legradability: No data available ects: An environmental h Disposal consider uidelines are intended	able able able able able able able able able ation ation ation ation ation be be be be be be be be be be	ootential hazards. 1050000 ata available oaccumulative potentia T and vPvB assessme excluded in the event of I of catalog-size quant	il: No data available nt: No data available unprofessional handling o	[,] disposal. ations may ap	pply to empty c	container. State a	ind/or loc
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STOT-repeated ex Aspiration hazard Potential health ef inhalation: May be ngestion: May be Skin: Contact with Eyes: Causes series Signs and sympto tot available. Exer Additional informa ection 12 Posicity to daphnic foxicity to adaption foxicity t	sure: Data not available posure: Data not available ffects: harmful if inhaled. harmful if swallowed. skin may cause irritation. ous eye irritation. ous eye irritation. ous of exposure: To the rcise appropriate procedu ation: RTECS #: Alumi Ecological information lo data available a and other aquatic involution No data available legradability: No data available lot applicable lot applicable	able able able able able able able able ation ation ation ation ation bio penazard cannot be rations for the disposa of in accordance ation Shipping na Packing gro 2020 ERG G	ata available ata available accumulative potentia ara available paccumulative potentia ara available paccumulative potentia ara available accumulative potentia accumulative potentia ara available accumulative potentia accumulative potentia	al: No data available nt: No data available unprofessional handling o ities only. Federal regul nd federal regulations or Reportable C	⁻ disposal. ations may ap contract with	oply to empty c a licensed che	container. State a emical disposal a	ind/or loo gency.
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Page E1 of E2

Section 1

Identification

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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	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 Con	nposition / information on i	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Calcium nitrate, tetrahydrat Food Coloring	e	7732-18-5 13477-34-4 Mixture	89.4% 10.0% 0.6%	231-791-2 233-332-1 Mixture	
Section 4 First	t 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.

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 prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	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/MSHAapproved respirator.

Section 9	Physical and chemica	al properties					
pH: Data not ava Melting / Freezing po	Data not available. ailable. oint: Approximately 0°C (32°F) (wate proximately 100°C (212°F) (wate	Flammability (Explosion limi Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not a tts: Lower / Upper: D e (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appr : Complete in water.	Data not available r)	Auto-ignitic Decomposi Viscosity: Molecular f	•	: Data not available re: Data not available. ole. e
Section 10	Stability and reactivity	у					
Chemical stabilit Conditions to av	ty: Stable roid: Excessive temperatures		us polymerization: \	Will not occur.			
Incompatible ma	terials: Ammonia, hydrozine	and other reducing ag	ents.				
Hazardous deco	mposition products: Nitroge	en oxides.					
Section 11	Toxicological informa	tion					
Germ cell mutag Carcinogenity: I NTP: No compon- IARC: No compor OSHA: No compor OSHA: No compor Ca Prop 65: This Reproductive to: STOT-single exp	kin sensitization: Data not a genicity: Data not available Data not available ent of this product present at lenent of this product present at pronent of this product present a product does not contain any xicity: Data not available posure: Data not available	evels greater than or e levels greater than or t levels greater than or	equal to 0.1% is identi equal to 0.1% is ident	fied as probable, pos tified as a carcinogen	sible or confirm or potential ca	ned human carc arcinogen by OS	
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NTI am, 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.

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Section 1

Identification

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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. P364: Take off contaminated clothing and wash it before reuse. P305+P351: FP338: 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 / info	rmation on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Calcium nitrate, tetrahydrate Aluminum nitrate, nonahydrate Food Coloring	7732-18-5 13477-34-4 7784-27-2 Mixture	80.1% 10.0% 9.3% 0.6%	231-791-2 233-332-1 236-751-8 (anhydrous CAS # 13473-90-0) 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.

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 prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	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/MSHAapproved respirator.

Section 0							
Section 9	Physical and chemical pr	operties					
pH: Data not ava Melting / Freezing po	Data not available. ilable. int: Approximately 0°C (32°F) (water) proximately 100°C (212°F) (water)	Flammability Explosion lim Vapor pressur Vapor density Relative density	rate (Water = 1): <1 (solid/gas): Data not itis: Lower / Upper: I re (mm Hg): 14 (wate (Air = 1): 0.7 (water) / (Specific gravity): Appi): Complete in water.	Data not available r)	Auto-igniti Decompos Viscosity: Molecular	•	e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactivity						
Chemical stabilit	y: Stable oid: Excessive temperatures to ca		ous polymerization: \	Will not occur.			
	terials: Ammonia, hydrozine and	•					
•	mposition products: Nitrogen ox	0 0	5				
Section 11	Toxicological information	I					
IARC: No compor OSHA: No compor Ca Prop 65: This	ent of this product present at levels nent of this product present at level nent of this product present at level product does not contain any chen kicity: Data not available	ls greater than or els greater than o	equal to 0.1% is identi or equal to 0.1% is iden	fied as probable, pos tified as a carcinogen	sible or confir or potential o	med human car arcinogen by O	
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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. Form 06/2015

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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.

SIMULATED BLOOD, TYPE O-Product Synonyms Simulated Blood, Type O Negative / Donor #4 Section 2 Hazards identification This substance or mixture has not been classified as hazardous according Supplemental information: to the Globally Harmonized System (GHS) of Classification and Labeling of Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear Chemicals. protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. 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

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 Food Coloring		7732-18-5 Mixture	>99% 0.6%	231-791-2 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.

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)	
Exposure Linits.	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/MSHAapproved respirator.

Section 9	Physical and chemical p	properties					
pH: Data not ava Melting / Freezing po	Data not available. ilable. proximately 0°C (32°F) (water) proximately 100°C (212°F) (water)	Flammability Explosion lin Vapor pressu Vapor density Relative density	rate (Water = 1): <1 (solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): 14 (wate y (Air = 1): 0.7 (water) y (Specific gravity): App): Complete in water.	Data not available r)	Auto-ignition Decomposity: Viscosity: Molecular f	•	: Data not available ire: Data not available. ble. re
Section 10 Stability and reactivity							
Chemical stabilit Conditions to av	ty: Stable oid: Excessive temperatures to		ous polymerization:	Will not occur.			
Incompatible ma	terials: Strong oxidizers and red	ducing agents may	destroy color.				
Hazardous deco	mposition products: Carbon or	kides, nitrogen oxic	des, sulfur oxides.				
Section 11	Toxicological information	n					
Carcinogenity: I NTP: No comport IARC: No comport OSHA: No comport Ca Prop 65: This Reproductive to: STOT-single exp STOT-repeated e		els greater than or vels greater than o	r equal to 0.1% is ident or equal to 0.1% is iden	ified as probable, pos itified as a carcinoger	sible or confirm or potential c	med human carc arcinogen by OS	
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ent 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. Form 06/2015

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Section 1

Identification

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

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)	
Exposure Linits.	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/MSHAapproved respirator.

approved respirato							
Section 9	Physical and chem						
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Section 10	Stability and react	ivity					
Chemical stability Conditions to avo	/: Stable bid: Excessive temperatu		dous polymerization: ration. Protect from light				
	erials: Strong oxidizers,	•	Ū				
Hazardous decom	nposition products: Car	bon oxides, sodium oxi	des.				
Section 11	Toxicological infor	rmation					
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Section 1

Identification

INNOVATING SCIENCE®

"Cutting edge science for the classroom"

by Aldon Corporation 221 Rochester Street 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 ANTI-SERUM ANTI-B	
Synonyms	Simulated Anti-B Serum / Anti-B Serum	
Section 2	Hazards identification	
to the Glob Chemicals Signal wor Pictograms Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of d: None required s: No symbol required ans: None known ification: None required information: Hazard statement: None required ary 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 Composit	Section 3 Composition / information on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Sodium sulfate FD&C Yellow #5 (C.I. No. 19140)	7732-18-5 7757-82-6 1934-21-0	84.992% 15.000% 0.008%	231-791-2 231-820-9 217-699-5	
Section 4 First aid m	neasures			

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.

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)	
Exposure Linits.	Sodium sulfate	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/MSHAapproved respirator.

Section 9 Physical and chemical	ion 9 Physical and chemical properties				
Appearance: Liquid. Clear yellow. 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			
Section 10 Stability and reactivity					

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Molten active metals, including aluminum and magnesium, acids.

Hazardous decomposition products: Oxides of sulfur.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: >10,000 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 Carcinogenity: 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: May cause mild irritation. Eyes: May cause mild 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 #: No data available Section 12 Ecological information Toxicity to fish: Gambusia affinis (Fish, fresh water) LC50: 120 mg/l/96 hours [Sodium sulfate] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea) EC50: 630 mg/l/96 hours [Sodium sulfate] Toxicity to algae: Chlorella pyrenoidosa (Algae) EC199: 57,700 mg/l/8 days [Sodium sulfate] Persistence and degradability: No data available Bioaccumulative potential: No data available PBT and vPvB assessment: No data available Mobility in soil: 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 2020 ERG Guide # Not applicable Exceptions: 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. CERLCA (RQ) DSL NDSL Component TSCA RCRA code CA Prop 65 This product does not contain Sodium sulfate Listed Not listed Not listed Listed Not listed 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 indepen-

dent 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.

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Section 1

Identification

"Cutting edge science for the classroom"

by Aldon Corporation 221 Rochester Street 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 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.

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 prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	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/MSHAapproved respirator.

Section 9	Physical and chen	nical properties					
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Section 10	Stability and react	ivity					
Chemical stability Conditions to avo	 r: Stable id: Excessive temperatu 		tion. Light sensitive.	Will not occur.			
Incompatible mat	erials: Strong oxidizers,	strong acids.					
Hazardous decon	nposition products: Car	bon oxides, sodium oxide	es.				
Section 11	Toxicological infor	mation					
IARC: No compone OSHA: No compore Ca Prop 65: This p Reproductive tox STOT-single expo STOT-repeated ex Aspiration hazarce Potential health e	nt of this product present ent of this product presen nent of this product presen orduct does not contain a icity : Data not available osure : Data not available gposure : Data not available ffects :	t at levels greater than or nt at levels greater than o any chemicals known to th	equal to 0.1% is ident r equal to 0.1% is iden	tified as probable, pos ntified as a carcinoge	ssible or confir n or potential o	med human card carcinogen by OS	
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Ingestion: Harmfu Skin: Prolonged of Eyes: Causes ser Signs and sympto not available. Exe Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: Persistence and of Mobility in soil: N Other adverse effo Section 13 These disposal g regulations may 1 Section 14	I if swallowed. ontact may cause irritation ious eye irritation. oms of exposure: To the rcise appropriate procedu lation: RTECS #: VO50' Ecological informa C50 - Pimephales prome ia and other aquatic invo No data available degradability: No data available ects: An environmental h Disposal consider uidelines are intended be different. Dispose o Transport informa	n and/or defatting of skin. best of our knowledge the tres to minimize potential 75000 [Sodium salicylate] ation las (fathead minnow) - 1, ertebrates: No data availe vailable Bioaccum PBT and vertice ations for the disposal of cata f in accordance with al ation	ne chemical, physical hazards. 370 mg/l - 96 h [Sodiu able ulative potential: No PvB assessment: N d in the event of unpro log-size quantities of local, state and fec	m salicylate] data available o data available ofessional handling or only. Federal regula	disposal. ations may a	pply to empty c	container. State and/or loc
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