SDS No.: DD6500-O

Section 1 Chemical Product and Company Information

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

Product JOE STONE - SUSPECT #1	
Synonyms Simulated Blood, Type O Negative	
Section 2 Hazards Identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: No data available Pictograms: No data available Target organs: None known GHS Classification: No data available GHS Label information: Hazard statement: No data available	

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

Section 3 Composition / Inf	ormation on Ingredients			
Chemical Name	CAS #	%	EINECS	
Water Proprietary inorganic salts	7732-18-5 Not disclosed	99.9% <0.1%	231-791-2 None assigned	
Section 4 First Aid Measure	S			

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

EYE CONTACT: MAY CAUSE 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 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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					
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Proprietary inorganic salts	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 & Chemical Prop	perties	
Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~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 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Strong oxidizers

Hazardous decomposition products: May produce toxic oxides of nitrogen and carbon and chlorides.

Section 11 **Toxicological Information**

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity:

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.

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

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

Reproductive toxicity: Data not available

STOT-single exposure: 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 ingested.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

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

Additional information: RTECS #: Data not available

Section 12 **Ecological Information**

Toxicity to fish: No data available

Othe

Toxicity to daphnia and other aquatic invertebrates: No data available

and Inda

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

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r adverse effects:	An environmental	nazaro cannoi d	e excluded in the even	l of unbrolessiona	i nandiind or disbosa

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: None							
Shipping name: Not Regulated							
Hazard class: None Packing group: None	Rep	ortable Quantity: Non	e Marine	pollutant: No	one Ex	ceptions: None	
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for the a	nhydrous form is	on the Inventory list.					Ĩ
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification	
Proprietary inorganic salts	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product	
	1	1	1	1		1	

Section 16 **Additional Information**

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

SDS No.: DD6500-A

Section 1 Chemical Product and Company Information

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

Product	SALLY CORUNDUM - SUSPECT #2	
Synonyms	Simulated Blood, Type A Positive	
Section 2	Hazards Identification	
Globally Ha Signal word Pictograms Target orga GHS Classi GHS Label	ance or mixture has not been classified as hazardous according to the armonized System (GHS) of Classification and Labeling of Chemicals. d: No data available s: No data available ans: Blood ification: No data available information: tement: No data available	Precautionary statement(s): 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.

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

Chemical NameCAS #%EINECSWater7732-18-597.78%231-791-2Proprietary inorganic saltsNot disclosed2.02%None assignedSafranin O477-73-6<0.01%207-518-8Phenolphthalein77-09-8<0.01%201-004-7	Section 3 C	Composition / Information on	Ingredients			
Proprietary inorganic saltsNot disclosed2.02%None assignedSafranin O477-73-6<0.01%207-518-8	Chemical Name		CAS #	%	EINECS	
	Proprietary inorganic sal Safranin O	Its	Not disclosed 477-73-6	2.02% <0.01%	None assigned 207-518-8	

Section 4 First Aid Measures

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

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE 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 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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					
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Proprietary inorganic salts	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 & Chemical Pro	perties	
Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~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 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): 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 & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Aluminum, cyanides, phosphorous, stannous chloride, thiocyanates. Oxidizable materials including sulfur, organic materials, and sodium hypophosphite.

Hazardous decomposition products: May produce toxic oxides of nitrogen.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 3,250 mg/kg [Proprietary inorganic salts] 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: 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. 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 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: 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 ingested. Skin: Contact with skin may cause irritation. Eyes: Contact with eyes may cause irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: Data not available Section 12 **Ecological Information** Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal **Disposal Considerations** Section 13 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: None Shipping name: Not Regulated Hazard class: None Marine pollutant: None Packing group: None Reportable Quantity: None Exceptions: None 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 WHMIS Classification Component TSCA RCRA code Listed Not listed Not listed Listed Not listed Uncontrolled product Proprietary inorganic salts Section 16 **Additional Information**

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

SDS No.: DD6500-O

Section 1 Chemical Product and Company Information

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

Product RUBY ST. MARCO - SUSPECT #3	
Synonyms Simulated Blood, Type O Negative	
Section 2 Hazards Identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: No data available Pictograms: No data available Target organs: None known GHS Classification: No data available GHS Label information: Hazard statement: No data available	

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

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Proprietary inorganic	salts	7732-18-5 Not disclosed	99.9% <0.1%	231-791-2 None assigned	
Section 4	First Aid Measures				

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

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE 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 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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 Limits.	Proprietary inorganic salts	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 & Chemical Prop	perties	
Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~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 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Strong oxidizers

Hazardous decomposition products: May produce toxic oxides of nitrogen and carbon and chlorides.

Section 11 **Toxicological Information**

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity:

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.

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

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

Reproductive toxicity: Data not available

STOT-single exposure: 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 ingested.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

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

Additional information: RTECS #: Data not available

Section 12 **Ecological Information**

Toxicity to fish: No data available

Othe

Toxicity to daphnia and other aquatic invertebrates: No data available

and Inda

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

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r adverse effects:	An environmental	nazaro cannoi d	e excluded in the even	l of unbrolessiona	i nandiind or disbosa

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: None							
Shipping name: Not Regulated							
Hazard class: None Packing group: None	Rep	ortable Quantity: Non	e Marine	pollutant: No	one Ex	ceptions: None	
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for the a	nhydrous form is	on the Inventory list.					Ĩ
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification	
Proprietary inorganic salts	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product	
	1	1	1	1		1	

Section 16 **Additional Information**

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

SDS No.: DD6500-AB

Section 1 Chemical Product and Company Information

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

Product	GREG SAPPHIRONI - SUSPECT #4	
Synonyms	Simulated Blood, Type AB Positive	
Section 2	Hazards Identification	
Globally Ha Signal word Pictograms Target orga GHS Classi GHS Label	ance or mixture has not been classified as hazardous according to the armonized System (GHS) of Classification and Labeling of Chemicals. d: No data available s: No data available ans: Blood ification: No data available information: tement: No data available	Precautionary statement(s): 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.

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

Section 3 Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS		
Water Proprietary inorganie	c salts	7732-18-5 Not disclosed	>98.00% <2.00%	231-791-2 None assigned		
Section 4	First Aid Measures					

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

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE 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 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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.	Proprietary inorganic salts	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 & Chemical Prop	perties	
Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~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 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): 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 & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Strong oxidizers, acids, bases.

Hazardous decomposition products: May produce toxic oxides of nitrogen and carbon and various hydrocarbons.

Section 11 Toxicological Information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity:

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.

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.

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

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

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

Potential health effects:

Potential nearth effects:

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if ingested. Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

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

Additional information: RTECS #: Data not available

Section 12 Ecological Information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available	Bioaccumulative potential: No data available
Mobility in soil: No data available	PBT and vPvB assessment: No data available

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

Section 13 Disposal Considerations

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

Section 14	Transport Information	l i i i i i i i i i i i i i i i i i i i					
UN/NA number: Nor	ne						
Shipping name: No	t Regulated						
Hazard class: None	Packing group:	None Re	portable Quantity: None	e Marine	pollutant: No	ne E	xceptions: None
Section 15	Regulatory Information	n					
A chemical is considered	to be listed if the CAS number f	or the anhydrous form	is on the Inventory list.				
Componer	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Proprietary inorganic	salts	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product

Section 16 Additional Information

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

SDS No.: DD6500-O

Section 1 **Chemical Product and Company Information**

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory use only. Not for drug, food or household use.

Product CULPRIT	
Synonyms Simulated Blood, Type O Negative	
Section 2 Hazards Identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: No data available Pictograms: No data available Target organs: None known GHS Classification: No data available GHS Label information: Hazard statement: No data available	Precautionary statement(s): 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.

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

Section 3 Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS		
Water Proprietary inorgar	nic salts	7732-18-5 Not disclosed	99.9% <0.1%	231-791-2 None assigned		
Section 4	First Aid Measures					

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

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE 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 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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						
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	Proprietary inorganic salts	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 & Chemical Prop	perties	
Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~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 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Strong oxidizers

Hazardous decomposition products: May produce toxic oxides of nitrogen and carbon and chlorides.

Section 11 **Toxicological Information**

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity:

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.

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

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

Reproductive toxicity: Data not available

STOT-single exposure: 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 ingested.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

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

Additional information: RTECS #: Data not available

Section 12 **Ecological Information**

Toxicity to fish: No data available

Othe

Toxicity to daphnia and other aquatic invertebrates: No data available

and Inda

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available

a advaraa affaata.	An any ironmental	horard connet h	e excluded in the even	t of upprofosional	I handling or dianaaa
r adverse effects:	An environmental	nazaro cannoi d	e excluded in the even	l of unbrolessiona	i nandiind or disbosa

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: None							
Shipping name: Not Regulated							
Hazard class: None Packing group: None	Rep	ortable Quantity: Non	e Marine	pollutant: No	one Ex	ceptions: None	
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for the a	nhydrous form is	on the Inventory list.					Ĩ
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification	
Proprietary inorganic salts	Listed	Not listed	Not listed	Listed	Not listed	Uncontrolled product	
	1	1	1	1		1	

Section 16 **Additional Information**

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

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

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

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

clothing. Rinse skin with water/shower.

P310: Immediately call a POISON CENTER or doctor.

P363: Wash contaminated clothing before reuse.

accordance with local/regional/national regulations.

breathing

P405: Store locked up.

Chemical Product and Company Information Section 1 HOME SCIENCE TOOLS CHEMTREC 24 Hour Emergency 665 Carbon Street Billings, MT 59102 Phone Number (800) 424-9300 For laboratory use only. 800-860-6272 Not for drug, food or household use. www.homesciencetools.com SIMULATED ANTI-SERUM ANTI-A Product Synonyms Simulated Anti-A Serum / Anti-A Serum Section 2 Hazards Identification Signal word: DANGER Precautionary statement: Pictograms: GHS05 P260: Do not breathe mist/vapours/spray Target organs: Respiratory tract, gastrointestinal tract, eyes, skin. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

GHS Classification: Skin. Corr. (Category 1B)

GHS Label information: Hazard statement:

H314: Causes severe skin burns and eye damage.

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

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Proprietary inorganic a Blue indicator	salts	7732-18-5 Not disclosed Mixture	96.0% 4.0% <0.01%	231-791-2 Not disclosed None assigned	
Section 4	First Aid Measures				

INGESTION: MAY BE FATAL 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 SEVERE DAMAGE. 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 SEVERE BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, water spray, alcohol foam. Can react with carbon dioxide to form sodium carbonate.

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. Contact with metals can generate hydrogen gas.

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						
Expective Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	Proprietary inorganic salts	STEL: C 2 mg/m ³	TWA: 2 mg/m ³	STEL: C 2 mg/m ³			

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 & Chemical Prop	perties					
Appearance: Clear, Odor: No odor. Odor threshold: No pH: Data not availab Melting / Freezing p Boiling point: ~ 100 Flash point: Not flat	ot applicable. ole. point: ~ 0°C (~ 32°F) [water] 0°C (212°F) [water]	Flammability (Explosion limi Vapor pressur Vapor density Relative densi	ate (Water = 1): < 1 solid/gas): Not applied ts: Lower / Upper: N e (mm Hg): 14 [water (Air = 1): 0.7 [water] ty (Specific gravity): : Complete in water.	lot applicable]	Auto-ignit Decompos Viscosity: Molecular	ion temperature:	: Data not available.
Section 10	Stability & Reactivity				1		
Chemical stability: Conditions to avoid	Stable I: Can react with carbon dioxide		ous polymerization: carbonate.	Will not occur.			
Incompatible mater	ials: Metals, acids, organic con	npounds, organic	nitro compounds.				
Hazardous decomp	osition products: Sodium oxid	de. Reacts with r	netals to form flamma	ble and explosive hy	drogen gas.		
Section 11	Toxicological Information						
Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: No component IARC: No componen OSHA: No compone Reproductive toxic STOT-single expos STOT-repeated expo Aspiration hazard: Potential health effi Inhalation: May be h Ingestion: May be h Skin: May be harmfi Eyes: Causes eye b Signs and symptom edema, burning sens and upper respirator	tof this product present at levels at of this product present at level of this product present at level ity: Data not available ure: Data not available posure: Data not available Data not available ects: narmful if inhaled. Material is ext	ble s greater than or of s greater than or els greater than o remely destructiv ses skin burns. imation and eder tis, shortness of l	equal to 0.1% is identi equal to 0.1% is ident r equal to 0.1% is iden re to the tissue of the r na of the larynx, spasr	ied as a known or au ified as probable, po tified as a carcinoge nucous membranes n, inflammation and	essible or confi or potential and upper res	irmed human carcir carcinogen by OSI spiratory tract. bronchi, pneumoni	łA. tis, pulmonary
Toxicity to fish: LC Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No	50 - Gambusia affinis (Mosquito and other aquatic invertebrat o data available gradability: No data available	es: Immobilizatio Bioaccum PBT and v	n EC50 - Daphnia - 40 ulative potential: No PvB assessment: No).38 mg/l - 48 h [Prop data available o data available		anic salts]	
Section 13	Disposal Considerations						
	idelines are intended for the e different. Dispose of in acc						
Section 14	Transport Information						
UN/NA number: No			age conforms to cond		specified in 4		
Hazard class: None Packing group: None Reportable Quantity: None Marine pollutant: No							
Exceptions: None		Guide # None					
Section 15	Regulatory Information	the exhibition of	in on the Investment of				
A chemical is considere	d to be listed if the CAS number for	the anhydrous form	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
		Listed	Not listed	Not listed		Not listed	
Proprietary inorganic	Salls	LISICU					F F
. , ,				Not listed	Listed	Not listed	E
Section 16	Additional Information			Nothisted	Listed	Not listed	E

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

Section 1 Chemical Product and Company Information

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory 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	
Globally Ha Signal worv Pictograms Target orga GHS Classi Acute toxicit Skin irritatio Eye irritation GHS Label Hazard stat H303: May I H316: Caus	ty, oral (Category 5) in (Category 3) n (Category 2B) information:	Precautionary statement(s): P264: Wash hands thoroughly after handling. P312: Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.

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

Section 3 Composition / Inf	ormation on Ingredients			
Chemical Name	CAS #	%	EINECS	
Water Proprietary inorganic salts Yellow #5	7732-18-5 Not disclosed 1934-21-0	98.00% 2.00% <0.1%	231-791-2 Not disclosed None assigned	
Section 4 First Aid Measure	S			

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

EYE CONTACT: MAY CAUSE 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 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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					
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Proprietary inorganic salts	None established	TWA: 5 mg/m ³ Respirable fraction	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 & Chemical Prop	perties	
Appearance: Red liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~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 1.1 Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Wolecular formula: Mixture Molecular weight: Mixture
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Reducing agents, organic materials.

Hazardous decomposition products: Nitrogen oxides Section 11 **Toxicological Information** Acute toxicity: Oral-rat LD50: 3,671 mg/kg [Proprietary inorganic salts] 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: 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. 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 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: 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 ingested. Skin: Contact with skin may cause irritation. Eyes: Contact with eyes may cause irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: Data not available Section 12 **Ecological Information** Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal **Disposal Considerations** Section 13 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: None Shipping name: Not Regulated Hazard class: None Reportable Quantity: None Marine pollutant: None Packing group: None Exceptions: None 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 WHMIS Classification Component TSCA RCRA code Listed Not listed Not listed Listed Not listed Uncontrolled product Proprietary inorganic salts Section 16 **Additional Information**

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

Section 1 **Chemical Product and Company Information** HOME SCIENCE TOOLS CHEMTREC 24 Hour Emergency 665 Carbon Street Billings, MT 59102 Phone Number (800) 424-9300 For laboratory use only. 800-860-6272 Not for drug, food or household use. www.homesciencetools.com SIMULATED ANTI-SERUM ANTI-RH Product Synonyms Simulated Anti-Rh Serum / Anti-Rh Serum Section 2 Hazards Identification Signal word: DANGER Precautionary statement: Pictograms: GHS05 P260: Do not breathe mist/vapours/spray Target organs: Respiratory tract, gastrointestinal tract, eyes, skin. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated GHS Classification: clothing. Rinse skin with water/shower. Skin. Corr. (Category 1B) P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing GHS Label information: Hazard statement: P310: Immediately call a POISON CENTER or doctor. H314: Causes severe skin burns and eve damage. P363: Wash contaminated clothing before reuse. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

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

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Water Proprietary inorganic s	salts	7732-18-5 Not disclosed	96.0% 4.0%	231-791-2 Not disclosed		
Section 4	First Aid Measures					

INGESTION: MAY BE FATAL 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 SEVERE DAMAGE. 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 SEVERE BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, water spray, alcohol foam. Can react with carbon dioxide to form sodium carbonate.

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. Contact with metals can generate hydrogen gas.

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 Linius.	Proprietary inorganic salts	STEL: C 2 mg/m ³	TWA: 2 mg/m ³	STEL: C 2 mg/m ³

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 & Chemical Prop	perties						
	Not applicable. able. point: ~ 0°C (~ 32°F) [water] 00°C (212°F) [water]	Flammability (s Explosion limit Vapor pressure Vapor density Relative densit	te (Water = 1): < 1 solid/gas): Not applic ts: Lower / Upper: N e (mm Hg): 14 [water] (Air = 1): 0.7 [water] y (Specific gravity): Complete in water.	ot applicable I	Auto-ignit Decompo Viscosity: Molecular	ion temperature:	e: Data not available.	icable
Section 10	Stability & Reactivity				1			
Chemical stability Conditions to avo	 Stable Can react with carbon dioxide 		us polymerization: N carbonate.	Vill not occur.				
incompatible mat	erials: Metals, acids, organic con	npounds, organic	nitro compounds.					
Hazardous decon	nposition products: Sodium oxic	de. Reacts with n	netals to form flammab	le and explosive hy	drogen gas.			
Section 11	Toxicological Information							
Germ cell mutage Carcinogenity: D NTP: No compone IARC: No compon OSHA: No compon Reproductive tox STOT-single expo	nt of this product present at levels ent of this product present at level nent of this product present at leve icity: Data not available spure: Data not available xposure: Data not available	s greater than or e s greater than or	equal to 0.1% is identi	fied as probable, po	ssible or conf	irmed human carcir		
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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.

Material Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

Product details

.Trade name: Regular Fingerprint Powder(black)

.Application of the substance: The powder used in dusting for fingerprints.

.Manufacturer/Supplier: Hangzhou Silver Arrow Forensics Tech. Ltd.

Tel: +86-571-82756110 82758110

Fax: +86-571-82685110

.Information in case of emergency:

Tel: +86-13588726110

2 Composition/information on ingredients

.Chemical characterization

.Description: The component of this product is in the form of element listed below with additions.

		Ammanimate(0/) hu	GHS	Workplace Exposure 1	Limit
Components Number	CAS Number	Approximate(%)by Wt.Or Vol.	Classification	OSHA PEL(mg/m3)	ACGIH
		<i></i>	Clussification		TLV(mg/m3)
Magnetite	1309-38-2	>55%	-	15mg/m3	10mg/m3
Plant powder	-	>25%	-	Not available	Not available
Pumice	1332-09-8	<20%	-	Not available	Not available

3. Hazards identification

Potential Health Effects:

.Eye: None expected under normal use conditions.

.Skin: None expected under normal use conditions.

.*Ingestion:* Product dust may be irritating to eyes, skin and respiratory system. Over-exposure by inhalation may cause respiratory irritation.

.Inhalation: Dust may irritate digestive tract.

4 First aid measures

Persons using these products should consult a physician or other medical professional if an accident involving these products in injury. Specific first-aid measures are as follows:

. Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.

.Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

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.*Inhalation:* Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If dust is swallowed, seek medical attention. Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

5 Fire-fighting measures

Extinguishing Media: Use carbon dioxide, appropriate foam or dry chemical.

.Special Fire Fighting Procedures: Firefighters should not enter confined spaces without wearing NIOSH/MSHA approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

.*Unusual Fire and Explosion Hazards:* This product is not combustible, however, dust may form explosive mixture in air. The product creates flammable/explosive dusts or hazard fumes under fire conditions.

.Explosion Sensitivity to Mechanical Impact: Not available.

.Explosion Sensitivity to Static Discharge: Not available.

6 Accidental release measures

Release Response: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Fine dust dispersed in air may ignite.

.Measures for environmental protection: Avoid disposing into drainage/sewer system or directly into the aquatic environment.

7 Handling and storage

.Handling:

.Information for safe handling:

Dusts or powders may form explosive mixtures with air. Avoid breathing dusts or fumes. Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

.Information about fire and explosion protection:

Do not handle, store or open near an open flame, sources of heat or sources of ignition.

.Storage:

.Requirements to be met by storerooms and receptacles:

Store in a cool, dry, well-ventilated area away from oxidizing agents.

.Information about storage in one common storage facility:

Keep container tightly sealed.

.Further information about storage condition: Store in cool, dry conditions in well sealed containers.

8 Exposure controls/personal protection

Engineering Controls: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

.Personal Protective Equipment:

.Protection of Hands: Appropriate protective gloves should be worn as necessary.

.Protection of Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Protection of Respiratory Tract: Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.

.Protection of Body: Wear appropriate protective clothing to minimize contact with skin.

.General protective and hygienic measures: Not available.

.Material of Gloves: Cloth or leather gloves recommended.

9. Physical and chemical properties

.General Information	
Form:	Powder
Color:	Black
Odor:	Odorless
.Change in condition	
Melting point/Melting range:	<100°C
Boiling point/Boiling range:	Not available
.Flash point:	Not available
.Self-igniting:	Not available
.Danger of explosion:	Not available
.Vapour pressure :	Not available
.Partition coefficient (n-octanol / water) :	Not available
.Density:	
.Relative density:	>1 g/m3
. Vapor density:	Not available
.Evaporation rate :	Not available
.Solubility in/Miscibility withWater:	Insoluble
.PH-Value:	Not available
.Viscosity:	Not available
Dynamic:	Not available

10 Stability and reactivity

.Chemical Stability: Stable at room temperature under normal storage and handling conditions.

. Dangerous Decomposition Products: None under normal use.

.Hazardous Polymerizations: Will not occur.

.Conditions to Avoid: Avoid dust formation. Avoid generation of airborne fume.

11 Toxicological information

.Potential Health Effects:

Acute Effect: Dust concentrations above the permissible exposure limits may cause temporary respiratory tract discomfort and irritation of eyes.

.Chronic Effects: Long term exposure to dust may cause irreversible lung damage.

.LD50: Not available.

12 Ecological information

.Ecotoxical effects:

.Effect of material on plants or animals: Not expected to be harmful to terrestrial organisms.

.Effect of material on plants or aquatic life: Not expected to be harmful to aquatic organisms.

.Ecological data: Not available

13 Disposal considerations

Waste Disposal Methods: Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

.Recommendation Disposal must be made according to official regulations.

14 Transport information

. These products are not hazardous as defined by EU related Regulation and Directive.

.Proper shipping name: Not available

.Hazard class number and description: Not available

.Packing Group: Not available

.UN Identification: Not available

.Marine Pollutant: Not available.

.Attentions: Not available.

15 Regulatory information

Labeling according to the GHS(Globally Harmonized System of Classification and Labelling of Chemicals):

.GHS label symbols: Not applicable.

. Hazard Statement: Not applicable.

. Precautionary Statement Prevention: Not applicable.

. Precautionary Statement Response: Not applicable.

. Precautionary Statement Storage: Not applicable.

. Precautionary Statement Disposal: Not applicable.

Other National Regulations:

.SARA: Not available.

.ICAO/IATA: Not available.

.TSCA: Not available.

.DOT: Not available.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. .Emergency Telephone Number:

SAFETY DATA SHEET

Chemical Product and Company Information

FLAMMABLE STORAGE CODE RED

Section 1

HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

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

ISOPROPYL ALCOHOL, 90% Product Synonyms Isopropanol, 90% Solution Section 2 **Hazards Identification** Signal word: DANGER Precautionary statement(s): Pictograms: GHS02 / GHS07 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Target organs: Central nervous system, Liver, Kidneys. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing mist/vapours/spray. **GHS Classification:** P264: Wash hands thoroughly after handling. Flammable liquid (Category 2) P271: Use only outdoors or in a well-ventilated area. Eye irritation (Category 2) P280: Wear protective gloves/protective clothing/eye protection/face protection. STOT-SE (Category 3) P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. GHS Label information: Hazard statement(s): P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for H225: Highly flammable liquid and vapour. breathing H319: Causes serious eye irritation. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. H336: May cause drowsiness or dizziness. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P337+P313: If eye irritation persists: Get medical attention. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

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

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Isopropyl alcohol Water		67-63-0 7732-18-5	90% 10%	200-661-7 231-791-2	
Section 4	First Aid Measures				

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

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

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

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

Section 5 Fire Fighting Measures

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

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

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

Section 6 Accidental Release Measures

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

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

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. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Pro	otection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m ³	TWA: 400 ppm / STEL: 500 ppm

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

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Section 9	Physical & Chemical Prop				D. and		
	or. ata not available. Ible. int: Approximately -50°C (-58°F) iximately 85-100°C (185-212°F)	Flammability (Explosion limi Vapor pressur Vapor density Relative densi	ate (Butyl acetate = 1): solid/gas): Data not av ts: Lower / Upper: 2% e (mm Hg): 33 mm @2 (Air = 1): 2.1 ty (Specific gravity): 0 : Complete in water.	vailable. 6 / 12% 20°C	Auto-ignitio Decompos Viscosity: Molecular	n temperature: 399°	
Section 10	Stability & Reactivity						
ncompatible mate	: Stable d: Excessive temperatures, hea rials: Strong oxidizing materials position products: Oxides of c	t, sparks, open fla , caustics, alumin		of ignition.	compounds o	can react vigorousl	y with this alcohol.
Section 11	Toxicological Information	I.					
Germ cell mutager Carcinogenity: Da NTP: No componer IARC classified: Gr	nt of this product present at levels oup 3: Not classifiable as to its ca ent of this product present at leve	arcinogenicity to h	numans			carcinogen by OSI	
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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.