SAFETY DATA SHEET

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Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

[®] by Aldon 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	BLOOD, SIMULATED	
Synonyms	None	
Section 2	Hazards identification	
GHS Classif Acute tox. (C Carc. (Categ Repr. (Categ Skin irrit. (Ca Eye irrit. (Ca GHS Label i H302: Harmf H315: Cause H320: Cause H320: Cause	 GHS08 / GHS07 ns: None known. ication: iategory 4) iory 1B) iory 2) itegory 2) tegory 2B) nformation: Hazard statement(s): iul if swallowed. as skin irritation. as eye irritation. 	 Precautionary statement(s): P202: Do not handle until all safety precautions have been read and understood. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical advice/attention. 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. P308+P313: IF exposed or concerned: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

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

Section 3 Composition / information	n on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Magnesium sulfate, heptahydrate Magnesium nitrate, hexahydrate Congo red (C.I. No. 22120) FD&C yellow #6 (C.I. No. 15985)	7732-18-5 10034-99-8 13446-18-9 573-58-0 2783-94-0	95.4% 2.0% 2.5% 0.5% 0.1%	231-791-2 231-298-2 233-826-7 209-358-4 220-491-7	

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 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. Causes eye irritation.

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling and storage

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.	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.

Appearance: Red liquid Exportation rate (Wider = 1); <1 Partition calible: Description in the available: Oper threshold: Data not available: Explosion initis: Lower / Upper: Data not available: Description in the available: De								
Order: No odde: Auto-ignification and available: Auto-ignification available: Auto-ignification:	Section 9	Physical and chemica	al properties					
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Incompatibility: Incompat	Odor: No odor. Odor threshold: D pH: Data not availa Melting / Freezing poin Boiling point: Appro	ata not available. ble. t: Approximately 0°C (32°F) (wate oximately 100°C (212°F) (wate	Flammability (s Explosion limit Vapor pressure Vapor density (Relative density (solid/gas): Data not a s: Lower / Upper: D e (mm Hg): 14 (water Air = 1): 0.7 (water) Specific gravity): Appro	ata not available)	Auto-igniti Decompos Viscosity: Molecular	on temperature: ition temperatur Data not availab formula: Mixture	: Data not available re: Data not available. le. e
Conditions to avoid: Excessive temperatures which cause evaporation. Incompatibilities with other materials: Strong oxidizes and reducing agents. Hazardous decomposition products: Carbon oxides, nitrogen oxides and sulfur oxides. Section 11 Toxicological information Acute toxicity: Data not available Serious sey damage/infitiation: Data not available Germ cell mutagenicity: Data not available Corposition hazard: Data not available Apprintion hazard: Data not available Apprintion hazard: Data not available Exercise appropriate procedures to four knowledge the chemical, physical and toxicological properties I been throughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional Information: RTEG 5 r. No data available Toxicity to daghenia and other aquate infraton. Strong to data available Toxicity to daghenia and other aquate incorrectorters: No data available Mary so data available Toxicity to daghenia and other aquate incorrectorters: No data available Mary so data available Mary s	Section 10	Stability and reactivit	у					
Section 11 Toxicological information Acute toxicity: Data not available Serious systemage/intrition: Data not available Respiratory or skin sensitization: Data not available Gern cell mutagenicity: Data not available Carcinogenity: Data not available Gern cell mutagenicity: Data not available Carcinogenity: Data not available Strippid not avavailable </td <td>Conditions to avoi Incompatibilities w</td> <td>d: Excessive temperaturesvith other materials: Stron</td> <td>which cause evapora g oxidizers and reduci</td> <td>tion. ng agents.</td> <td>Will not occur.</td> <td></td> <td></td> <td></td>	Conditions to avoi Incompatibilities w	d: Excessive temperaturesvith other materials: Stron	which cause evapora g oxidizers and reduci	tion. ng agents.	Will not occur.			
Acute toxicity: Data not available Skin corrosion/irritation: Data not available Skin corrosion/irritation: Data not available Reprintation of available Skin corrosion/irritation: Reprintation: Data not available Reprintation: Data not available Reprintation: Data not available Reprintation: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. NRC: 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. 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. StoT-single sequence: Data not available STOT-single sequence: Data not available STOT-single sequence: Contant valiable StoT-single sequence: Contant valiable StoT-single sequence: Contant valiable Store contant may cause irritation. To the best of our knowledge the chemical, physical and toxicological properties I head to available Strin: Contant may cause irritation. Exercise appropriate procedures to minimize potential hazards.	• ** **							
Skin corosion/irritation: Data not available Seprous eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Carcinogenity: Data not available NP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NRC. CAR Prop 65: A WARNING1: This product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by NRC. CAR Prop 65: A WARNING1: This product an expose you to, Benzidine-based dyes, which are known to the State of California to cause cancer. Reproductive to cause not available Strot-single exposure: Data not available STOT-single exposure: Data not available Aspiration hazard: Data not available Aspiration may cause irritation. Strot-single exposure: Strot-respect be harmful bi ingestion. Strot-respect be california to available Aspiration hazard: Data not available Strot-respect be harmful bi ingestion. Strot-respect be harmful bi ingestion. Strot-respect be harmful bi ingestion. Strot-respect be harmful bi ingestion. Strot-respect be harmful bi ingestion. Strot-respect be information Toxicity to faphnia and other aquatic innorrebrates: No data available	Section 11	Toxicological informa	ition					
Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Persistence and degradability: 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 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 Recortable Quantity: No Marine pollutant: No Exceptions: Not applicable Packing form is on the Inventory list. Component TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Magnesium mitrate Listed Not listed Not listed Not listed N	Germ cell mutagen Carcinogenity: Da NTP: No componen IARC: No componer OSHA: No compone CA Prop 65: WAF Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May be Ingestion: May be Ingestion: May be Ingestion: May be Ingestion: Contact may Eyes: Contact may Signs and symptor been thoroughly inv	icity: Data not available ta not available t of this product present at lent of this product present at NING! : This product present at RNING! : This product can e ity: Data not available obsure: Data not available Data not available fects: harmful if inhaled. harmful by ingestion. cause irritation. ms of exposure: Contact w estigated. Specific data is n	evels greater than or e levels greater than or t levels greater than or xpose you to, Benzidir vith eyes may cause tr ot available. Exercise	equal to 0.1% is identi equal to 0.1% is iden ne-based dyes, which	fied as probable, pos tified as a carcinoger are known to the Sta he best of our knowle	sible or confirm or potential c te of California	ned human carci arcinogen by OS a to cause cancer	HA.
Toxicity to fish: No data available 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 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 regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Resonation to move the and prove of the andyrous form is on the Inventory list. Marine pollutant: No Component TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Magnesium sulfate Listed Not l	Section 12	Ecological informatio	n					
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or 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 Section 15 Regulatory information Component TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Magnesium sulfate Listed Not listed D001 Listed Not listed	Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No	a and other aquatic inverte lo data available a gradability: No data availa o data available	able Bioaccum PBT and v	ulative potential: No PvB assessment: No	o data available	disposal.		
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 Section 15 Regulatory information 2020 ERG Guide # Not applicable Not applicable Reportable Quantity: No Marine pollutant: No Section 15 Regulatory information TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Magnesium sulfate Listed Not listed Not listed D001 Listed Not listed Not listed Not listed Not listed Not listed WWW.P65Warning.ca.g.	Section 13	Disposal consideration	ons					
Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Packing group: Not applicable Packing group: Not applicable Section 15 Regulatory information A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. Component TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Magnesium sulfate Listed Not listed D001 Listed Not listed Not listed Not listed Not listed Not listed Not listed Not listed Not listed	These disposal gur regulations may b	idelines are intended for e different. Dispose of in	the disposal of cata accordance with all	log-size quantities o local, state and fed	only. Federal regulations or	ations may ap contract with	oply to empty co a licensed che	ontainer. State and/or local mical disposal agency.
Hazard class: Not applicable Packing group: Not applicable Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Reportable Quantity: No Marine pollutant: No Section 15 Regulatory information A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. Component TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Magnesium sulfate Listed Not listed Not listed D001 Listed Not listed Not listed Not listed Not listed Not listed Not listed Not listed								
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. RCRA code DSL NDSL CA Prop 65 Magnesium sulfate Listed Not listed Not listed Listed Not listed	Hazard class: N	ot applicable	Packing group: N	ot applicable	Reportable Qua	ntity: No	Ма	rine pollutant: No
ComponentTSCACERLCA (RQ)RCRA codeDSLNDSLCA Prop 65Magnesium sulfateListedNot listedNot listedListedNot listedListedNot listedMagnesium nitrateListedListedNot listedD001ListedNot listedNot listedCongo redListedNot listedNot listedNot listedNot listedNot listedNot listed	Section 15	Regulatory information	on					
Magnesium sulfate Magnesium nitrate Congo redListed Listed ListedNot listed Not listedNot listed D001 Not listedNot listed Listed Not listedNot listed ListedNot listed ListedNot listed ListedNot listed				is on the Inventory list.				
Magnesium nitrate Listed Not listed D001 Listed Not listed Congo red Listed Not listed Not listed Not listed Not listed	Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
	Magnesium nitrate		Listed	Not listed	D001	Listed	Not listed	A WARNING -Cancer - www.P65Warnings.ca.gov.
Section 16 Other information	Section 16	Other information						

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

SAFETY DATA SHEET

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Section 1

Identification

"Cutting edge science for the classroom"

by Aldon 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	DIALYSIS TUBING			
Synonyms	N/A			
Section 2	Hazards identification			
This substa to the Globz Chemicals. Signal word Pictograms Target organ GHS Classif Not a dangen GHS Label i Not a dangen Precautiona	nce or mixture has not been classified at Illy Harmonized System (GHS) of Classifient Not a dangerous substance according to C Not a dangerous substance according to C ns: None known	cation and Labeling of	linters, one glycerol as polysulfides use. Conta	eable membrane tubing made of regenerated cellulose from cotton of the purest naturally occurring sources of cellulose. Contains water, a humectant, and small quantities of sulfur compounds, primarily as s (approximately 0.1%). Store in air-tight container or rehumidify before ins a solution which may cause irritation to eyes. In case of contact with thoroughly with water for 15 minutes.
	ot otherwise classified:			
	ds not otherwise classified (HHNOC) - Not ards not otherwise classified (PHNOC) - No			
Section 3	Composition / information on			
Chemical Nan	•	CAS #	%	EINECS
	ter, glycerol as a humectant, and small quan be removed by proper washing.	tities of sulfur compounds,	primarily as polysul	fides (approximately 0.1%). Both the glycerol and

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. Causes eye irritation.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Causes skin irritation.

Section 5 Fire fighting measures

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

General information: 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.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 Section 7 Handling and storage

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Avoid contact with eyes, skin and clothing. Avoid ingestion. Wash thoroughly after handling. 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.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures.

Section 9	Physical and chemical prop	perties					
Odor: No odor. Odor threshold: No pH: Not applicable	point: Not applicable	Flammability Explosion lin Vapor press Vapor densi Relative den	rate (=1): Not appli y (solid/gas): Not app mits: Upper: / Lowe ure (mm Hg): Not appli ty (Air = 1): Not applie usity (Specific gravity s): Insoluble	licable r: Not applicable blicable cable	Auto-ig Decom Viscosi Molecu	nition temperatu	applicable
Section 10	Stability and reactivity						
Chemical stability: Conditions to avoid	Stable I: Do not allow product to dry out.		ous polymerization:	Will not occur.			
Incompatibilities w	ith other materials: No specific of	lata.					
Hazardous decomp	oosition products: No specific da	ata.					
Section 11	Toxicological information						
Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dal NTP: No componen IARC: No componen Ca Prop 65: This pro Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Not expe Skin: Not expected Eyes: Contact may Signs and symptor not available. Exerce	t of this product present at levels g tt of this product present at levels potuct does not contain any chemic ity: Data not available ure: Data not available Data not available Data not available ects: acted to cause ill effects. to cause ill effects.	Glýcerol] rreater than or o greater than o greater than o als known to th ur knowledge th	equal to 0.1% is ident r equal to 0.1% is iden e State of California to ne chemical, physical a	fied as probable, po tified as a carcinoge o cause cancer or re	ossible or confi en or potential productive tox	rmed human carci carcinogen by OS icity.	HA.
Section 12	Ecological information						
Toxicity to algae: N Persistence and de Mobility in soil: No	a and other aquatic invertebrates lo data available e gradability: No data available		Bioaccumulativ PBT and vPvB a	e potential: No dat issessment: No da fessional handling c	ata available		
Section 13	Disposal considerations						
regulations may be	idelines are intended for the di e different. Dispose of in accor						
Section 14	Transport information						
UN/NA number: Hazard class: No Exceptions: No	ot applicable Packir	ng group: N	Not Regulated lot applicable Not applicable	Reportable Qua	antity: No	Ма	rine pollutant: No
Section 15	Regulatory information		11				
	ed to be listed if the CAS number for th	e anhydrous form	n is on the Inventory list				
Compon		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Data not available							This product does not contain any chemicals known to the State of California to cause cancer or

Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

reproductive toxicity.