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Section 1

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency

Innovating Science[®] by Aldon Corporation 221 Rochester Street "cutting edge science for the classroom"

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

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

Product BLOOD, SIMULATED, TYPE A	
Synonyms SUSPECT #1	
Section 2 Hazards Identification	
Signal word: WARNING Pictograms: GHS07 Target organs: Liver, Kidneys, Blood	Precautionary statement(s): P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of soap and water 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 advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse.

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 Name	CAS#	%	EINECS
Water	7732-18-5	85%	231-791-2
Aluminum nitrate, nonahydrate	7784-27-2	15%	236-751-8 (anhydrous CAS # 13473-90-0)
Neutral red (C.I. # 50040)	553-24-2	<0.005%	209-035-8
FD&C yellow #5 (C.I. No. 19140)	1934-21-0	<0.005%	217-699-5

Section 4 First Aid Measures

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

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

EYE CONTACT: MAY CAUSE 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 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, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Pro	tection		
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	None established.	None established.	None established.	None established.

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

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

approved respirator.								
Section 9	Physical & Chemical P	roperties						
	, ata not available. ble. : Approximately 0°C (32°F) (water) ximately 100°C (212°F) (water)	Flammability (Explosion limi Vapor pressur Vapor density Relative density	tte (Water = 1): <1 solid/gas): Data not ts: Lower / Upper: e (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App Complete in water.	Data not available er))	Auto-igniti Decompos Viscosity: Molecular	•	Data not available e: Data not available e.	
Section 10	Stability & Reactivity							
Chemical stability:	• •		us polymerization:	Will not occur.				
	ials: Reducing agents, orga							
•	osition products: Nitroger							
Section 11	Toxicological Informati	on						
Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Gerrn cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Ingestion: May be harmful if iswallowed. Skin: May cause irritation. 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 #: BD1050000 [Aluminum nitrate]								
Section 12	Ecological Information							
Toxicity to fish: No Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effec Section 13 These disposal gui	data available and other aquatic inverteb o data available gradability: No data availal	ble Bioaccumu PBT and vi d cannot be excluded ns ne disposal of catal	ulative potential: No PvB assessment: No d in the event of unpro og-size quantities o	o data available ofessional handling o only. Federal regula	ations may ap			
Section 14	Transport Information			icial regulations of	contract with		lical disposal ag	chey.
UN/NA number:	•	hipping name: N	•					
Hazard class: Not Exceptions: Not	ot applicable Pa	acking group: No 012 ERG Guide #	ot applicable	Reportable Qua	antity: No	Mar	ine pollutant:	No
Section 15	Regulatory Information	1						
A chemical is considered	d to be listed if the CAS number	for the anhydrous form	is on the Inventory list.					
Compone	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL		
Aluminum nitrate, no	nahydrate	Listed	Not listed	Not listed	Listed	Not listed		
Section 16	Other Information							
The information contain dent determinations of s	ed herein is furnished without wa uitability and completeness of ir ncy for Research on Cancer, OS	formation from all source	ces to assure proper use	of these materials and	the safety and h	ealth of employees.	NTP: National Toxico	ology Program,

ERG: Emergency Response Guidebook.

Form 06/2015

CHEMTREC 24 Hour Emergency

Phone Number (800) 424-9300

For laboratory use only

Not for drug, food or household use.

Section 1

Chemical Product and Company Identification

Page E1 of E2

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

Product BLOOD, SIMULATED, TYPE B	
Synonyms SUSPECT #2	
Section 2 Hazards Identification	
Signal word: WARNING Pictograms: GHS07 Target organs: None known.	Precautionary statement(s): P264: Wash 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. P337+P313: If eye irritation persists: Get medical advice/attention.
GHS Classification: Eye irritant (Category 2)	
GHS Label information: Hazard statement(s): H319: Causes serious eye irritation.	

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 / Inform	ation on Ingredients			
Chemical Name	CAS #	%	EINECS	
Water Calcium chloride Neutral red (C.I. # 50040) FD&C yellow #5 (C.I. No. 19140)	7732-18-5 10043-52-4 553-24-2 1934-21-0	95.5% 4.5% <0.005% <0.005%	231-791-2 233-140-8 209-035-8 217-699-5	
	100+210	-0.00070	211 000 0	

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 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. 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, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Calcium chloride	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 1 Project a & Chemical Properties Appearance: Red liquid. Or: No core has not available. The anot available of the not available of the not available within present present available of the not available billing point: Approximately (C (27:F) (wath) Bolling point: Approximately (C (27:F) (wath) Relate deatily (S table Conditions to avoid: Excessive temperatures which cause evaporation. Incompatible materials: Subtra cados, corroseve to some metais such as brass, mild steel, aluminum, ferrous metais. Acate toxicity: Crai-rat LDS0: 4,179 mg/kg ; Dermat-rat LDS0: 2,830 mg/kg (Calcium chioride] Skin corrosion/infritation: Barros evaluately corres of the product present al levels greater than or equal to 0,1% is identified as a known or anticipated carcinogen by NTP. NTP: No component of this product present al levels greater than or equal to 0,1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive custicity: Can and available StrOT-single exposure: Dati not available StrOT-single exposure: Dati not available Approximation: Approximately (C (27:F) (27:F) (C (27:F) (27:F) (27:F) (C (27:F) (27:F	approved respirator.							
Appearance: Red liquid: Evaporation rate (Watter + 1): c1 Pathogeneration rate (Watter + 1): c1 Pathogeneration rate available. Odor: Notice: The main additive (Garge): Data not available. Pathogeneration: Data not available. Pathogeneration: Data not available. Metting JFreezing point: Approximately (VC (G2F) (watter) Relative density (Gare + 1): c7 (watter) Pathogeneration: Matter available. Pathogeneravailable. Pathogeneration: Matter avail	Section 9	Physical & Chemical Prop	erties					
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Incompatible metrials: Sulfive adds, consolve to some metales such as brass, mild steel, aluminum, ferrous metals. Hazardous decomposition products: Does not decompose. Section 11 Toxicological Information Acute toxicity: Oral-rat LD50: 4,179 mg/kg: Dermak-rat LD50: 2,630 mg/kg [Calcium chloride] Skin corrosion/irritation: Human - irritation Serious eye damage/irritation: Data not available Gern cell mutagenicity: Data not available Gern cell mutagenicity: Data not available Carcinogenity: Data not available Gern cell mutagenicity: Data not available Gern cell mutagenicity: Data not available ThP: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC. OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available Stort single scopeurs: Data not available Stort single scopeurs: Data valiable Stort single scopeurs: Data not available Stort single way be harmful by inhalation. Inpesitor. Inhalation: May be harmful by inhalation. Inpesitor. Start: Contact may cause infinition. Start contacause. Start: Contact	Odor: No odor. Odor threshold: Da pH: Data not availab Melting / Freezing point: Boiling point: Approx	ta not available. le. Approximately 0°C (32°F) (water) imately 100°C (212°F) (water)	Flammability (Explosion limi Vapor pressur Vapor density Relative density	solid/gas): Data not ts: Lower / Upper: e (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App	Data not available r)	Auto-ignitio Decomposi Viscosity: Molecular f	on temperature: ition temperatur Data not available formula: Mixture	Data not available e: Data not available. e.
Conditions to avoid: Excessive temperatures which cause evaporation. Incompatible materials: Sulfuric acids, corrosive to some metals such as brass, mild steel, aluminum, ferrous metals. Hazardous decomposition products: Does not decompose. Section 11 Toxicological Information Acute toxicity: Oral-rat. LDS0: 4.179 mg/kg; Dermah-rat LDS0: 2.630 mg/kg [Calcium chloride] Skin corrosion/irritation: Human - irritation Serious org damage/irritation: Data not available Germ cell mutagenicity: Data not available Germ cell mutagenicity: Data not available Germ cell mutagenicity: Data not available Carcitogenity: Data not available Carcitogenity: Data not available Carcitogenity: Data not available Carcitogenity: Data not available Strict volticy: Data not available Strict ray cause infraiton. Reproductive toxicity: Data not available Strict ray cause infraiton. Reproductive toxicity: Data not available Strict ray cause infraiton. Strict ray cause infraiton. Reproductive toxicity: Data not available Strict ray cause infraiton. <td>Section 10</td> <td>Stability & Reactivity</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Section 10	Stability & Reactivity						
Acute toxicity: Crained LDS0: 4.179 mg/kg : Dermal-rat LDS0: 2,630 mg/kg [Calcium chloride] Skin corrosion/irritation: Human - infration Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Garcinogenity: Data not available MITP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available STOT-repeated exposure: Data not available StoT-repeated exposure: Data not available Potential health effects: Inhalation. Inhalation: May be harmful by inhalation. Ingestion: May be harmful by indestion. Stin: Contact may cause irritation. Sigs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxiological properties have not been thoroughly investigated. Specific data not available Soction 12 Ecological Information Toxic	Conditions to avoid Incompatible materi	Excessive temperatures whic als: Sulfuric acids, corrosive to	h cause evaporat some metals su	ion.		metals.		
Skin corrotsion/initiation: Human - initiation Serious eye damage/initiation: Data not available Germ cell mutagenicity: Data not available Garcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: EV9810000 [Calcium choide] Section 12 Ecological Information Toxicity to fish: Gambusia affinis (fish, fresh water), LCS0 = 13,400 mg/l/24 hours [Calcium choide] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), ECS0 = 3,005 mg/l/48 hours [Calcium choide] Prosistence and degradability: No data available Mobility in solit. No dat	Section 11	Toxicological Information						
Toxicity to fish: Gambusia affinis (fish, fresh water), LC50 = 13,400 mg/l/24 hours [Calcium chloride] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = 3,005 mg/l/48 hours [Calcium chloride] Toxicity to algae: Nitzschia linearis (Algae), LC50 = 3,130 mg/l/120 hours [Calcium chloride] 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 loca 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 (US DOT / CANADA TDG) UN/NA number: Not applicable Shipping name: Not Regulated Packing group: Not applicable Hazard class: Not applicable Shipping name: Not Regulated Packing group: Not applicable	Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component OSHA: No component OSHA: No component STOT-single expose STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: May be ha Skin: Contact may ca Eyes: Contact may ca Signs and symptom not available. Exercia Additional informati	attion: Human - irritation p/irritation: Data not available sensitization: Data not available a not available of this product present at levels i of this product present at levels i of this product present at level to of this product present at level to of this product present at level to a not available ure: Data not available Data not available Data not available Data not available cosure: Data not avai	ole greater than or e s greater than or ls greater than or our knowledge th inimize potential	equal to 0.1% is identi equal to 0.1% is ident equal to 0.1% is iden e chemical, physical	fied as a known or an ified as probable, pos tified as a carcinoger	ssible or confirn	med human carci arcinogen by OS	HA.
Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = 3,005 mg/l/48 hours [Calcium chloride] Toxicity to algae: Nitzschia linearis (Algae), LC50 = 3,130 mg/l/120 hours [Calcium chloride] 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 (US DOT / CANADA TDG) UN/NA number: Not applicable Shipping name: Not Regulated Packing group: Not applicable Reportable Quantity: No Marine pollutant: No	Section 12	Ecological Information						
UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No	Toxicity to daphnia a Toxicity to algae: Nii Persistence and deg Mobility in soil: No Other adverse effect Section 13 These disposal guid regulations may be	and other aquatic invertebration tzschia linearis (Algae), LC50 = gradability: No data available data available ts: An environmental hazard ca Disposal Considerations delines are intended for the of different. Dispose of in according	es: Daphnia mag 3,130 mg/l/120 h Bioaccumu PBT and vl annot be excluded disposal of catal ordance with all	na (Crustacea), EC50 ours [Calcium chlorid Ilative potential: No PvB assessment: N d in the event of unpro og-size quantities of local, state and fed	 a) = 3,005 mg/l/48 hou b) = 3,005 mg/l/48 hou c) data available <lidata avai<="" td=""><td>disposal. ations may ap</td><td>oply to empty co</td><td></td></lidata>	disposal. ations may ap	oply to empty co	
Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No		•		•				
Exceptions: Not applicable 2012 ERG Guide # Not applicable	Hazard class: No	t applicable Pack	ing group: N	ot applicable	Reportable Q	uantity: No	Ма	rine 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.			-			DOI	NDC	
ComponentTSCACERLCA (RQ)RCRA codeDSLNDSLCalcium chloride, anhydrous (CAS # 10043-52-4)ListedNot listedNot listedListedNot listed	•							
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 inder dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Progr	The information containe	d herein is furnished without warrar						

dent determination contained nerein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gamered 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.

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Section 1 Chemical Product and Company Identification

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom" Avon, NY 1 (585) 226-6

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only.

Not for drug, food or household use.

Product	BLOOD, SIMULATED, TYPE A	
Synonyms		
Section 2	Hazards Identification	
Pictogram Target org GHS Class Acute toxic Skin irritati Eye irritatio GHS Labe H303: May H315: Cau	rd: WARNING is: GHS07 ians: Liver, Kidneys, Blood sification: bity, oral (Category 5) on (Category 2) on (Category 2A) I information: Hazard statement(s): be harmful if swallowed. ses skin irritation. ses serious eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of soap and water 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 advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse.

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 Name CAS # % Water 7732-18-5 85°	
	5% 231-791-2
Aluminum nitrate, nonahydrate 7784-27-2 15' Neutral red (C.I. # 50040) 553-24-2 <0.005'	5% 236-751-8 (anhydrous CAS # 13473-90-0) 5% 209-035-8

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

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

Section 5

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

Fire Fighting Measures

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, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Pro	tection		
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	None established.	None established.	None established.	None established.

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

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

approved respirator.								
Section 9	Physical & Chemical P	roperties						
	, ata not available. ble. : Approximately 0°C (32°F) (water) ximately 100°C (212°F) (water)	Flammability (Explosion limi Vapor pressur Vapor density Relative density	tte (Water = 1): <1 solid/gas): Data not ts: Lower / Upper: e (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App Complete in water.	Data not available er))	Auto-igniti Decompos Viscosity: Molecular	•	Data not available e: Data not available e.	
Section 10	Stability & Reactivity							
Chemical stability:	• •		us polymerization:	Will not occur.				
	ials: Reducing agents, orga							
•	osition products: Nitroger							
Section 11	Toxicological Informati	on						
Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Gerrn cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Ingestion: May be harmful if iswallowed. Skin: May cause irritation. 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 #: BD1050000 [Aluminum nitrate]								
Section 12	Ecological Information							
Toxicity to fish: No Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effec Section 13 These disposal gui	data available and other aquatic inverteb o data available gradability: No data availal	ble Bioaccumu PBT and vi d cannot be excluded ns ne disposal of catal	ulative potential: No PvB assessment: No d in the event of unpro og-size quantities o	o data available ofessional handling o only. Federal regula	ations may ap			
Section 14	Transport Information			icial regulations of	contract with		lical disposal ag	chey.
UN/NA number:	•	hipping name: N	•					
Hazard class: Not Exceptions: Not	ot applicable Pa	acking group: No 012 ERG Guide #	ot applicable	Reportable Qua	antity: No	Mar	ine pollutant:	No
Section 15	Regulatory Information	1						
A chemical is considered	d to be listed if the CAS number	for the anhydrous form	is on the Inventory list.					
Compone	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL		
Aluminum nitrate, no	nahydrate	Listed	Not listed	Not listed	Listed	Not listed		
Section 16	Other Information							
The information contain dent determinations of s	ed herein is furnished without wa uitability and completeness of ir ncy for Research on Cancer, OS	formation from all source	ces to assure proper use	of these materials and	the safety and h	ealth of employees.	NTP: National Toxico	ology Program,

ERG: Emergency Response Guidebook.

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Section 1 Chemica

Chemical Product and Company Identification

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

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

Product	BLOOD, SIMULATED, TYPE O	
Synonyms		
Section 2	Hazards Identification	
Pictogram Target org GHS Class Acute toxic Acute toxic Chronic aq GHS Labe H303+H31	rd: WARNING is: No symbol jans: Respiratory system, Heart sification: ity, oral (Category 5) juatic toxicity (Category 5) juatic toxicity (Category 4) of information: Hazard statement(s): 3: May be harmful if swallowed or in contact with skin. ay cause long lasting harmful effects to aquatic life.	Precautionary statement(s): P273: Avoid release to the environment. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P501: Dispose of contents/container to a licensed chemical disposal agency ir accordance with all local, state and federal 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 / Informat	ion on Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Sodium azide Neutral red (C.I. # 5 FD&C yellow #5 (C.		7732-18-5 26628-22-8 553-24-2 1934-21-0	99.98% 0.02% <0.005% <0.005%	231-791-2 247-852-1 209-035-8 217-699-5	

Section 4 First Aid Measures

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

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

EYE CONTACT: MAY CAUSE 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 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. 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.	Sodium azide	STEL: C 0.29 mg/m ³ as NaN ₃ (A4)	None established.	STEL: C 0.3 mg/m ³ as NaN 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				
• • • •	ta not available. le. Approximately 0°C (32°F) (water) imately 100°C (212°F) (water)	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not a Explosion limits: Lower / Upper: D Vapor pressure (mm Hg): 14 (water Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Appr Solubility(ies): Complete in water.	ata not available)	Auto-ignition temp	Mixture	le.
Section 10	Stability & Reactivity					
Chemical stability:	• •	Hazardous polymerization: Note that the second seco	Vill not occur.			
Incompatible materi	als: Strong oxidizers.					
Hazardous decomp	osition products: Nitrogen ox	kides and sodium oxides.				
Section 11	Toxicological Information					
Serious eye damagu Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component OSHA: No component STOT-single expose STOT-repeated expose STOT-repeated expose STOT-repeated expose Aspiration hazard: Potential health effe Inhalation: May be ha Skin: Contact may ca Eyes: Contact may ca Signs and symptom not available. Exerci	of this product present at level of this product present at level to f this product present at leve to f this product present at leve ty: Data not available tre: Data not available Data not available bata not availa	able s greater than or equal to 0.1% is identifi Is greater than or equal to 0.1% is identi els greater than or equal to 0.1% is identi f our knowledge the chemical, physical a ninimize potential hazards.	fied as probable, poss	sible or confirmed hun or potential carcinoge	nan carcinogen by IARC. en by OSHA.	cific data is
Section 12	Ecological Information					
Toxicity to algae: No Persistence and deg Mobility in soil: No Other adverse effec Section 13 These disposal guid	data available and other aquatic invertebrat of data available gradability: No data available data available ts: An environmental hazard or Disposal Considerations delines are intended for the	Bioaccumulative potential: No PBT and vPvB assessment: No annot be excluded in the event of unpro- disposal of catalog-size quantities or ordance with all local, state and fede	data available fessional handling or c nly. Federal regulati	ions may apply to e		
UN/NA number: Hazard class: Not Exceptions: Not Section 15	t applicable Pac	pping name: Not Regulated king group: Not applicable 2 ERG Guide # Not applicable	Reportable Qu	uantity: No	Marine pollutant:	No
		the anhydrous form is on the Inventory list.				
Compone		TSCA CERLCA (RQ)	RCRA code	DSL ND	SL	
		ter than or equal to 0.1% is considered h				
Section 16	Other Information					
The information contained dent determinations of se	d herein is furnished without warra uitability and completeness of infor cy for Research on Cancer, OSHA	nty of any kind. Employers should use this in mation from all sources to assure proper use c. Occupational Safety and Health Administration	of these materials and the	e safety and health of er et Organ Toxicity, SE: Sir	nployees. NTP: National Toxicol	logy Program, cposure,

221 Rochester Street

Avon, NY 14414-9409

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Section 1 Chemical Product and Company Identification

Innovating Science[®] by Aldon Corporation

chemical Product and company identification

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

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

"cı	Itting edge science for the classroom"	(585) 226-6177	Not for drug, food or household use.
Product Synonyms	ANTI-SERUM, SIMULATED, ANTI-A None assigned		
Section 2	Hazards Identification		
GHS Class Acute toxici Eye irritation GHS Label H302: Harm	ans: Liver	F F d F F F F F F	 Precautionary statement(s): P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or loctor 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. P337+P313: If eye irritation persists: Get medical attention. P501: Dispose of contents/container to a licensed chemical disposal agency in locdr/regional/national regulations.

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

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Sodium salicylate FD&C blue #1		7732-18-5 54-21-7 3844-45-9	95.4% 4.6% <0.005%	231-791-2 200-198-0 223-339-8	
Section 4	First Aid Measures				

INGESTION: 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: 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 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:	Not applicable	Not applicable	Not applicable	Not applicable			

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: Blue 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: 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.

Incompatibilities with other materials: Strong oxidizers

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 930 mg/kg [Sodium salicylate]

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.

Cycs. Contact with eyes may cause initiation.

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 #: V05075000 [Sodium salicylate]

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 (US DOT / CANADA TDG)

UN/NA number: N Hazard class: Not Exceptions: Not a Section 15	applicable	2016 ERG Guide # Not applicable		Reportable Quantity: No		Marine pollutant: No	
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.							
Component	t	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	
Sodium salicylate		Listed	Not listed	Not listed	Listed	Not listed	
Section 16	Other Information						
he information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make indepen							

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.

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Section 1

Chemical Product and Company Identification

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221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

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

Product ANTI-SERUM, SIMULATED, ANTI-B	
Synonyms None assigned	
Section 2 Hazards Identification	
Signal word: WARNING Pictograms: None required Target organs: None known GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B) GHS Label information: Hazard statement(s): H315: Causes skin irritation. H320: Causes eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. 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 or reproductive toxicity.

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Sodium sulfate FD&C yellow #5		7732-18-5 7757-82-6 1934-21-0	92.9% 7.1% <0.005%	231-791-2 231-820-9 217-699-5	
Section 4	First Aid Measures				

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

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

Section 5 Fire Fighting Measures

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

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

Specific Hazards: 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:	Not applicable	Not applicable	Not applicable	Not applicable			

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 Properties					
Appearance: Yellow 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: 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

ERG: Emergency Response Guidebook

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Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

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

Hazardous decomposition products: Oxides of sulfur.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 5,989 mg/kg [Sodium sulfate] 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 NTF 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 #: WE1650000 [Sodium sulfate] 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. Transport Information (US DOT / CANADA TDG) Section 14 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 2016 ERG Guide # Not applicable Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. RCRA code DSL NDSL Component TSCA CERLCA (RQ) Sodium sulfate Listed Not listed Not listed Listed Not listed Section 16 Other Information The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,

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Section 1

Chemical Product and Company Identification

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

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

roduct ANTI-SERUM, SIMULATED, ANTI-RH	
ynonyms None assigned	
ection 2 Hazards Identification	
Signal word: WARNING Victograms: None required arget organs: None known SHS Classification: skin irritation (Category 3) Eye irritation (Category 2B) SHS Label information: Hazard statement(s): 1315: Causes skin irritation. 1320: Causes eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. 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 or reproductive toxicity.

Section 3	Composition / Information on Ingredients				
Chemical Name		CAS #	%	EINECS	
Water Sodium sulfate Green food coloring		7732-18-5 7757-82-6 	93.3% 6.7% <0.005%	231-791-2 231-820-9 	
Section 4	First Aid Measures				

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

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

Section 5 Fire Fighting Measures

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

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

Specific Hazards: 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.	Not applicable	Not applicable	Not applicable	Not applicable

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: Green 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: 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

ERG: Emergency Response Guidebook

Form 06/2015

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

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

Hazardous decomposition products: Oxides of sulfur.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 5,989 mg/kg [Sodium sulfate] 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 NTF 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 #: WE1650000 [Sodium sulfate] 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. Transport Information (US DOT / CANADA TDG) Section 14 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 2016 ERG Guide # Not applicable Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. RCRA code DSL NDSL Component TSCA CERLCA (RQ) Sodium sulfate Listed Not listed Not listed Listed Not listed Section 16 Other Information The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,