SAFETY DATA SHEET

FLAMMABLE STORAGE CODE RED

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Rov 24 Nov. N

"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 and industrial use only. Not for drug, food or household use.

UNIVERSAL PH INDICATOR Product Synonyms Universal Indicator Section 2 Hazards identification Signal word: DANGER Precautionary statement: Pictograms: GHS02 / GHS08 / GHS06 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Target organs: Eyes, Central nervous system, Liver, Kidneys. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe mist/vapours/spray. P264: Wash hands thoroughly after handling. GHS Classification: P271: Use only outdoors or in a well-ventilated area. Flammable liquid (Category 2) P280: Wear protective gloves/protective clothing/eye protection/face protection. Acute toxicity, inhalation (Category 3) P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove Skin irritation (Category 2) contact lenses, if present and easy to do. Continue rinsing Eye irritation (Category 2B) P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated STOT-SE (Category 2) clothing. Rinse skin with water/shower. STOT-SE (Category 3) P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing GHS Label information: Hazard statement: P312: Call a POISON CENTER or doctor if you feel unwell. H225: Highly flammable liquid and vapour. P332+P313: If skin irritation occurs: Get medical attention. H315: Causes skin irritation. P337+P313: If eye irritation persists: Get medical attention. H319: Causes serious eye irritation. P362+P364: Take off contaminated clothing and wash it before reuse. H331: Toxic if inhaled. P403+P233: Store in a well-ventilated place. Keep container tightly closed. H336: May cause drowsiness or dizziness. P501: Dispose of contents/container to a licensed chemical disposal agency in H371: May cause damage to organs. 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 Com	oosition / information on ingredients			
Chemical Name	CAS #	%	EINECS	
Ethyl alcohol	64-17-5	64.50 - 65.11%	200-578-6	
Water	7732-18-5	23.96%	231-791-2	
Isopropyl alcohol	67-63-0	6.83%	200-661-7	
Methanol	67-56-1	3.03 - 3.26%	200-659-6	
Methyl isobutyl ketone	108-10-1	0.68 - 0.76%	203-550-1	
Bromothymol blue	76-59-5	0.06%	200-971-2	
Phenolphthalein	77-09-8	0.06%	201-004-7	
Methyl red	845-10-3	0.02%	212-682-9	
Thymol blue	62625-21-2	0.005%	263-650-6	

Section 4 First aid measures

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

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

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

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. 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: Carbon dioxide, dry chemical, dry sand, alcohol foam.

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

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

Section 6 Accidental release measures

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

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

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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

Section 8	Exposure controls / personal prot	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Ethanol	STEL: 1000 ppm / 1880 mg/m ³ (A3)	TWA: 1000 ppm / 1900 mg/m ³	TWA: 1000 ppm / 1900 mg/m ³

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

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

approved respirator.							
Section 9	Physical and chemical pro	operties					
Appearance: Clear, Odor: Mild character Odor threshold: Dat pH: Data not availabl	green liquid. istic odor. a not available. e. pint: -114°C (-173°F)* °C (173-174°F)*	Evaporation rate Flammability (so Explosion limits Vapor pressure (Vapor density (A	(Specific gravity):	available. I.0%(V) / 20.0%(V)* 20°C (68°F)*	Auto-igniti Decompos Viscosity: Molecular	oefficient: Data n on temperature: ition temperature Data not available formula: Mixture weight: Mixture	400°C (752°F)* e: Data not available. e.
Section 10	Stability and reactivity				1		
Incompatible materi	Stable : Excessive temperatures, heat als: Strong oxidizers, inorganio osition products: Oxides of ca	, sparks, open flam c acids and haloger					
Section 11	Toxicological information						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC classified: Grou OSHA: No componer CA Prop 65: A WAR and birth defects or o Reproductive toxici STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Inhalation Ingestion: Ingestion Skin: Contact with sk Eyes: Contact with es	of this product present at levels up 3: Not classifiable as to its ca t of this product present at level NING! :This product can expose ther reproductive harm. ty: Data not available ure: The substance or mixture i psure: Data not available Data not available	t. re irritant. ole greater than or equinoingenicity to hur ls greater than or equinoingent to hur ls greater than or et a you to Phenolphth s classified as spect ess, nausea, vomiti decreased reaction, prolonged contact.	ual to 0.1% is identii mans. [Isopropanol] equal to 0.1% is iden nalein, Methanol and cific target organ tox ng, inability to conce , euphoria, nausea,	ied as a known or an tified as a carcinoger d Methyl isobutyl keto icant, single exposur entrate and irritation o	n or potential one, which are re, category 3 re, category 3 r	carcinogen by OSł known to the Stat with narcotic effec	te of California to cause cancer
Section 12	Ecological information						
Toxicity to daphnia a Toxicity to algae: Ch Persistence and deg Mobility in soil: No Other adverse effect Section 13	corhynchus mykiss (fish, fresh v and other aquatic invertebrate lorella pyrenoidosa (Algae), EC gradability: No data available data available ts: An environmental hazard ca Disposal considerations delines are intended for the o	es: Daphnia magna 50 = 9,310 mg/l/gr Bioaccumula PBT and vPv Innot be excluded i	a (Crustacia), EC50 owth rate [Ethanol, a ative potential: No /B assessment: No n the event of unpro	= 10,800 mg/l/24 hou absolute] data available o data available ofessional handling or	disposal.		intainer. State and/or local
	different. Dispose of in acco						
Section 14	Transport information						
Hazard class: 3 Exceptions: Limi	Packing g ted quantity equal to or less	•	Reporta	ble Quantity: 5,0 G Guide # 127	00 lbs (2270	kg) Mar	rine pollutant: No
Section 15	Regulatory information						
	to be listed if the CAS number for t		•			NDO	
Compone Ethanol Methanol Isopropanol	m	TSCA Listed Listed Listed	CERLCA (RQ) Not listed 5,000 lbs. Not listed	RCRA code D001 U154 Not listed	DSL Listed Listed Listed	NDSL Not listed Not listed Not listed	CA Prop 65 WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Section 16	Other information						
							red by them and must make indepen- NTP: National Toxicology Program.

dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Avon, W

"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 and industrial use only. Not for drug, food or household use.

Product	SODIUM SULFATE, 1 MOLAR SOLUTION	
Synonyms	Sodium Sulfate, Water Solution	
Section 2	Hazards identification	
This subst to the Glob Chemicals Signal wor Pictograms Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of	Supplemental information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wea protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Sodium sulfate		7732-18-5 7757-82-6	85.8% 14.2%	231-791-2 231-820-9	
Section 4	First aid measures				

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

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

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

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 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 prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Sodium sulfate	None established.	None established.	None established.

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

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

	Data not available.		its: Lower / Upper: D			•	ire: Data not available.
pH: Data not ava Melting / Freezing p	ilable bint: Approximately 0°C (32°F) (water)		<pre>re (mm Hg): 14 (water (Air = 1): 0.7 (water)</pre>)		Data not availat formula: Mixtur	
Boiling point: Ap	proximately 100°C (212°F) (water)	Relative density	(Specific gravity): Appro	oximately 1.0 (water)		weight: Mixture	
Flash point: Dat		Solubility(ies)	: Complete in water.				
Section 10	Stability and reactivity						
	ty: Stable old: Excessive temperatures whic with other materials: Molten act	ch cause evapora					
	mposition products: Oxides of s		g alaliniani and mag	g			
Section 11	Toxicological information	I					
•	Dral-rat LD50: >10,000 mg/kg						
	rritation: Data not available age/irritation: Data not available						
•	kin sensitization: Data not available						
Germ cell mutag	enicity: Data not available						
	Data not available	areator the	anual to 0 40/ :- :	ad aa a ka	tioinata		
	ent of this product present at levels nent of this product present at level	0				0 ,	cinogen by IARC
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	product does not contain any chem	nicals known to th	ne State of California to	cause cancer or rep	productive toxi	city.	
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