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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Roc

"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 SAND, FINE WHITE (OTTAWA) Synonyms Silicon Dioxide / Quartz / Crystalline Silica Section 2 Hazards identification Signal word: WARNING Precautionary statement: Pictograms: GHS08 P260: Do not breathe dust. Target organs: Lungs P314: Get medical advice/attention if you feel unwell. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. GHS Classification: *STOT-RE (Category 2) GHS Label information: Hazard statement: *H373: May cause damage to organs (*lungs*) through prolonged or repeated exposure (inhalation). * Respirable dust particles containing silicon dioxide may be generated by crushing. There are no known hazards associated with this material when used as recommended.

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	
Sand		14808-60-7	>99%	238-878-4	
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: RESPIRABLE CRYSTALLINE SILICA 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 CORNEAL ABRASIONS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

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

Section 5 Fire fighting measures

Suitable Extinguishing Media: Sand will not burn or support fire. 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: None known.

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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. Do not inhale dusts. 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.

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits.	Silica, crystalline, α-quartz	TWA: 0.025 mg/m ³ respirable (A2)	TWA: 10 mg/m ³ respirable dust	TWA: 0.05 mg/m ³ respirable dust			

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

Section 9	Physical and chemical pro	operties					
Ddor: No odor. Ddor threshold: Da DH: Data not availa	ble. point: 1610°C (3110°F))°C (4046°F)	Flammability (solid/gas): Data not available. A Explosion limits: Lower / Upper: Not flammable C Vapor pressure (mm Hg): Data not available V Vapor density (Air = 1): Data not available M			Auto-igniti Decompos Viscosity: Molecular	Partition coefficient: Not applicable Auto-ignition temperature: Not applicable Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: SiO ₂ Molecular weight: 60.09	
Section 10	Stability and reactivity						
	d: Avoid contact with incompatib	le materials.	ous polymerization: \				
-	rials: Contact with powerful oxid			-		l oxygen difluoride	e may cause fire.
Hazardous decom	position products: Will dissolve	e in hydrofluoric a	acid and produce silicol	n tetrafluoride, a cor	rosive gas.		
Section 11	Toxicological information						
Respiratory or skill Germ cell mutager Carcinogenity: Da NTP: Known to be a IARC classified: Gro	ge/irritation: Data not available n sensitization: Data not available nicity: Data not available ita not available a human carcinogen (respirable). oup 1: Carcinogenic to humans. [i ent of this product present at leve	[Quartz] Quartz] Ils greater than o					
Ca Prop 65: A WAI Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard Potential health eff Inhalation: May be Ingestion: May be I Skin: May cause tra Eyes: May cause tra Signs and sympto changes and miliary	RNING! This product can expose city: Data not available sure: Data not available posure: Inhalation - May cause of Data not available fects: harmful if inhaled. May cause res harmful if swallowed. ansient irritation.	damage to organ spiratory tract irrit alation of crystall	is through prolonged of tation. ine silica may result in	r repeated exposure silicosis, a disabling	. [Quartz] pulmonary fib		ed by fibrotic
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

GENERAL STORAGE CODE GREEN

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Product	GRAVEL, AQUARIUM	
Synonyms	Natural Sand / Gravel	
Section 2	Hazards identification	
Signal word Pictograms Target orga		Precautionary statement: P260: Do not breathe dust. P314: Get medical advice/attention if you feel unwell. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.
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Section Physical and chamical properties Operander: Sold in the light home more more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home more pair likes Figure and sold in the light home home more pair likes Figure and sold in the like home home home pair likes Figure and sold in the like home home home home home home home hom	approved respirator.							
Appearation res: Display into our out quarking, if the first out any quarking is the first out quark is th	Section 9	Physical and chemical p	operties					
Chemical stability: Stability: Numerization: Will not occur. Conditions to avoid: Avoid contact with incompatible materials. Incompatible materials. <td>Odor: No odor. Odor threshold: Da pH: Data not availat Melting / Freezing p Boiling point: 2230</td> <td>ata not available. ble. point: 1610°C (3110°F) °C (4046°F)</td> <td>Flammability Explosion lin Vapor pressu Vapor densit Relative den</td> <td>(solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): Data not y (Air = 1): Data not av sity (Specific gravity):</td> <td>available. Not flammable available ⁄ailable</td> <td>Auto-igniti Decompos Viscosity: Molecular</td> <td>on temperature: ition temperatur Data not availabl formula: SiO₂</td> <td>Not applicable e: Data not available.</td>	Odor: No odor. Odor threshold: Da pH: Data not availat Melting / Freezing p Boiling point: 2230	ata not available. ble. point: 1610°C (3110°F) °C (4046°F)	Flammability Explosion lin Vapor pressu Vapor densit Relative den	(solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): Data not y (Air = 1): Data not av sity (Specific gravity):	available. Not flammable available ⁄ailable	Auto-igniti Decompos Viscosity: Molecular	on temperature: ition temperatur Data not availabl formula: SiO ₂	Not applicable e: Data not available.
Conditions to avoid: Avoid contact with incompatible materials. Incompatible materials: Contact with proverbio dividing agents such as Buoinne, chiorine trifluoride, manganese trioxide and oxygen difluoride may cause fire. Hazardous decomposition products: Will disacive in hydrofluoric acid and produce silicon tetrafluoride, a corresive gas. Socion 11 Toxicological information Acute toxicity: Oral-ral LDSD: 500 mg/kg Sin corresponding to that and available Germ cell mutagenicity: Data not available Strip: May cause formsion: Tell Strip:	Section 10	Stability and reactivity						
Bitsdardous decomposition products: Will dissolve in hydrofluoric acid and produce silicon tetrafluoride, a corrosive gas. Section 1 Toxicological information Acute toxicity: Oral-rat LDS0: 500 mg/kg Sin corrosion/irritation: Data not available Biotorizor documentation: Data not available Germ call mutagenicity: Data not available STOT-isngle exposure: Prolonged inhalation of crystalline silica may result in silicosis, a disabiling pulmonary fibrosis characterized by fibricic charges and mutagenicity to data vailable Stoticy to daght and dure aquate invertebrates: No data available Discotcumutation RTECS #: VT33000 Stoticy to daght and dure aquate invertebrates: No data available Discotcumutation and ber exposure: Prolongenicity and the exposure of an available Discotcumutation and bere aquate invertebrates: No data available Discotcumut				dous polymerization:	Will not occur.			
Section 11 Toxicological information Acute broking: Charla LLOS: 500 mg/kg Skin corresion/irritation: Data not available Respiratory or skin sensitization: Data not available Gern cell mutagenicity: Data not available Gern cell mutagenicity: Data not available Carcinogenity: Data not available Strongenity: Data available Strongenity: Invalues <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>oxygen difluoride</td><td>e may cause fire.</td></t<>							oxygen difluoride	e may cause fire.
Acute toxicity: Oral-rat LDC: 500 mg/kg Skin corrosion/irritation: Data not available Services eve damage/irritation: Data not available Gern cell mutagenicity: Data not available Gern cell mutagenicity: Data not available Gern cell mutagenicity: Data not available Carcinogenty: Data not available Carcinogenty: Data not available Carcinogenty: Data not available Representation: Data networks grader than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Car Prop. 85: & WARNING: The an expose you to a chemical, crystalline silica, which is known to the State of California to cause cancer. Representation: Not available Disposed exposure: STOT-repeted exposure: Inhaldon: May available STOT-repeted exposure: Inhaldon: May available Not: May available Disposed exposure: Potential STOT-repeted exposure: Inhaldon: May available Disposed exposure: STOT-repeted exposure: Inhaldon: May available Disposed exposure: Potential: Strint to fact: Inhaldon: May available	Hazardous decomp	osition products: Will dissolv	e in hydrofluoric	acid and produce silico	n tetrafluoride, a cor	rosive gas.		
Skin corosion/irritation: Data not available Seprious eye damagefinitation: Data not available Respiratory or skin sensitization: Data not available Seprious eye damagefinitation: Data not available Carcinogenity: Data not available NTP: Known to be a human carcinogen (respirable). [Quart2] IARC classified: Group 1: Carcinogenic to humans. [Quart2] ARC classified: Group 1: Carcinogenic to humans. [Quart2] CAR Prop 65: & WARNING! This product are expose you to a chemical, crystalline silica, which is known to the State of California to cause cancer. Reproductive to available STOT-single exposure: Data not available STOT-single exposure: Data not available STOT-single exposure: Data not available Strip carcel Experimentation. May be harmful if shallowed. Strip and the exposure: Protocopic intervalue intervalue. Strip and available Strip carcel Experimentation. Strip and available Tort-single exposure: Protocopic intervalue. Strip and available Tort-single exposure: Protocopic intervalue. Strip to fash: No data available Bis accumulation and other available Toxicity to dapa: No data available PBT and vPVB assessment: No data available Mobility in soli: No data available PBT and vPVB assessment: No data available Mobility in soli: No data available PBT and vPvB as	Section 11	Toxicological information	ı					
Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Persistence and degradability: No data available Post adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal considerations These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information UN/NA number: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Section 16 NDSL CA Prop 65 Sand Listed Not listed Not listed Listed Not listed WARNING -Cancer - www.WeSWarnings.ca.gov.	Germ cell mutagen Carcinogenity: Dat NTP: Known to be a IARC classified: Gro OSHA: No compone Ca Prop 65: A WAR Reproductive toxic STOT-single exposs STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May be h Skin: May cause tra Eyes: May cause tra Signs and symptor changes and miliary	icity: Data not available ta not available human carcinogen (respirable) up 1: Carcinogenic to humans. int of this product present at lev NING! This product can expose ity: Data not available ure: Data not available osure: Inhalation - May cause Data not available ects: narmful if inhaled. May cause re armful if swallowed. Insient irritation. ansient irritation. ns of exposure: Prolonged inl nodules in the lungs, a dry cou	. [Quartz] [Quartz] els greater than e you to a chemi damage to orga espiratory tract ir nalation of crysta	cal, crystalline silica, wi ans through prolonged c ritation. alline silica may result ir	nich is known to the S or repeated exposure silicosis, a disabling	State of Califor . [Quartz] pulmonary fib	nia to cause cano	ed by fibrotic
Toxicity to daphnia and other aquatic invertebrates: No data available Bioaccumulative potential: 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 UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Reportable Quantity: No Marine pollutant: No Achemical is considered to be listed if the CAS number of is on the Inventory list. Exceptions: Not applicable VARNING - Cancer - www.P65Warnings.ca.gov. Sand Listed Not listed Not listed Not listed Not listed WARNING -Cancer - www.P65Warnings.ca.gov.	Section 12	Ecological information						
Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Reportable Quantity: No Marine pollutant: No Section 15 Regulatory information Achemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. Achemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. NDSL CA Prop 65 Sand Listed Not listed Not listed Listed Not listed Mot listed Mot listed	Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu	and other aquatic invertebra o data available gradability: No data available data available tts: An environmental hazard of Disposal considerations idelines are intended for the	Bioaccur PBT and annot be exclud	nulative potential: No vPvB assessment: N ed in the event of unpro talog-size quantities of	o data available ofessional handling or only. Federal regula	ations may a		
Hazard class: Not applicable Packing group: Not applicable 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 Sand Listed Not listed Not listed Marine pollutant: No					-			,
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 Sand Listed Not listed Not listed Listed Not listed Listed Not listed Marxings.ca.gov.	Hazard class: No	ot applicable Pac t applicable 2020	king group:	Not applicable	Reportable Qua	antity: No	Ма	rine pollutant: No
ComponentTSCACERLCA (RQ)RCRA codeDSLNDSLCA Prop 65SandListedNot listedNot listedListedNot listedListedNot listedMarxings.ca.gov.		· ·						
Sand Listed Not listed Not listed Listed Not listed Listed Not listed WARNING -Cancer - www.P65Warnings.ca.gov.						Dei	NDO	CA Bron 65
www.P65Warnings.ca.gov.	•	ent						
Section 16 Other information	Sanu		LISTED	INUT IISTED	INUL IISTEO	LISIED	INOL IISTED	
	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

GENERAL STORAGE CODE GREEN

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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 CHARCOAL, ACTIVATED	
Synonyms Activated Carbon	
Section 2 Hazards identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: None required Pictograms: No symbol required Target organs: None known GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required	Supplemental information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Activated carbon		7440-44-0	100%	231-153-3		
O stiss 4	First sid as a summer					
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: 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 BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust dispersed in air becomes explosive when exposed to ignition source.

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. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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 dusts. 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.	Particulates not otherwise classified	TWA: 5 mg/m ³ Respirable fraction	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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.								
Section 9	Physical and chemic	cal proper	ties					
Appearance: Solid. Odor: No odor. Odor threshold: Da pH: 5.0 - 8.0 Melting / Freezing p Boiling point: Deco Flash point: Combu	ta not available. oint: Data not available mposes	Fla Exp Vap Vap Rel	mmability (plosion limi oor pressure oor density lative densit	te (=1): Data not a solid/gas): Data not ts: Lower / Upper: I e (mm Hg): Data not (Air = 1): Data not av ty (Specific gravity): Insoluble in water.	available. Data not available available /ailable	Auto-ignitio Decomposi Viscosity: Molecular f	ition temperatu Data not availab	: Data not available re: Data not available
Section 10	Stability and reactive	ity						
Chemical stability: Conditions to avoid	Stable I: Stable under normal fir	-		ous polymerization:	Will not occur.			
Incompatible mater	ials: Strong oxidizers.							
Hazardous decomp	osition products: Oxide	s of carbon	1.					
Section 11	Toxicological inform	ation						
Skin corrosion/irrit Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: No componen IARC: No componen OSHA: No compone Ca Prop 65: This pro Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Material Ingestion: May be h Skin: May cause ski Eyes: May cause ey Signs and symptor	of this product present at the of this product present at nt of this product present a nt of this product present duct does not contain any ity: Data not available ure: The substance or m osure: Data not available Data not available ects: may be irritating to mucou armful if swallowed. in irritation. May be harmful	ailable available levels grea it levels gre at levels gre at levels gre at levels gre at levels gre chemicals ixture is cla e us membrar ful if absorb west of our k	ater than or e ater than or eater than o k known to th ssified as sp nes and upport bed through t	equal to 0.1% is identi equal to 0.1% is ident r equal to 0.1% is iden e State of California t ecific target organ tox er respiratory tract. M he skin.	ified as probable, po ntified as a carcinoge o cause cancer or re kicant, single exposu ay be harmful if inha	essible or confir en or potential c productive toxid re, category 3 v led.	med human carc arcinogen by OS city. vith respiratory e	SHA.
Section 12	Ecological informati							
Toxicity to fish: No Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effec	data available and other aquatic inver o data available gradability: No data ava data available tts: An environmental haz	tebrates: N ilable zard cannot	Bioaccumu PBT and v	ulative potential: No PvB assessment: No	o data available	r disposal.		
Section 13	Disposal considerat	ions						
regulations may be	e different. Dispose of i	n accorda	osal of cata nce with all	log-size quantities of local, state and fed	only. Federal regul leral regulations or	ations may ap contract with	oply to empty c a licensed che	ontainer. State and/or local mical disposal agency.
Section 14	Transport informati							
UN/NA number: Hazard class: No Exceptions: Not	ot applicable	Packing	group: N	lot Regulated ot applicable Not applicable	Reportable Qua	antity: No	Ма	rrine pollutant: No
Section 15	Regulatory informat	ion						
A chemical is considere	d to be listed if the CAS num	ber for the ar						
Compone	ent		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Activated carbon			Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information							
dent determinations of	suitability and completeness of ency for Research on Cancer,	of information	n from all sour	ces to assure proper use	of these materials and	the safety and h	ealth of employees	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,

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Section 1

Identification

"Cutting edge science for the classroom" by Aldon (585) 221 Roc (585) 201

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	FD&C GREEN #3	
Synonyms	Food Coloring Green / Food Coloring Green #3 / Green Food Coloring /	Dye, Vegetable / FD&C Green Dye #3 / Food Dye Green #3, 0.5% Aqueous Soluiton
Section 2	Hazards identification	
to the Glob Chemicals Signal wor Pictogram Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according hally Harmonized System (GHS) of Classification and Labeling of d: None required s: No symbol required ans: None known ification: None required information: Hazard statement: None required ary statement: None required	Supplemental information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3	Composition / information on ingredients						
Chemical Name		CAS #	%	EINECS			
Water FD&C Green #3 (C.	I. No. 42053)	7732-18-5 2353-45-9	99.5% 0.5%	231-791-2 219-091-5			
Section 4	First aid measures						

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

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

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

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

Section 5 Fire fighting measures

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

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

Specific Hazards: 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.

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.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	FD&C Green #3	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.

ection 9	Physical and che						
ppearance: Liq	uid, clear green.	Evaporation ra	ate (Water = 1): <1		Partition	coefficient: Data	a not available
Odor: No odor. Flammability (solid/gas				available.	Auto-ignit	tion temperature	e: Data not available
dor threshold:	Data not available.	Explosion limi	its: Lower / Upper: [sition temperatu	ure: Data not available.		
H: Data not ava	ilable.	Vapor pressur	Vapor pressure (mm Hg): 14 (water) Viscosity:				ble.
elting / Freezing po	oint: Approximately 0°C (32°F) (water) Vapor density	(Air = 1): 0.7 (water)		Molecular	formula: Mixtu	re
oiling point: Ap	proximately 100°C (212°F)	(water) Relative density	(Specific gravity): Appr	roximately 1.0 (water) Molecular	weight: Mixture	e
Flash point: Data not available Solubility(ies): Complete in water.							
ection 10	Stability and reac	tivity					
hemical stabilit	•	Hazardo ures which cause evapora	ous polymerization:	Will not occur.			
	terials: Strong oxidizers,	•	luon.				
•	.	ides of carbon, nitrogen o	vidos, sulfur ovidos				
		ides of carbon, hitrogen o	Aldes, sullui Oxides.				
ection 11	Toxicological info	ormation					
-	Oral-rat LD50: >2,000 mg/	•					
	rritation: Data not availa						
•	age/irritation: Data not						
	kin sensitization: Data r						
	enicity: Data not availab	ле					
	Data not available	t at lovals greater than an	oqual to 0 10/ in identi	fied as a known or a	ticipated care		
		t at levels greater than or nt at levels greater than or				• •	
		ent at levels greater than of					
		any chemicals known to the					
	xicity: Data not available	,				J-	
•	osure: Data not available						
TOT-repeated o							
	exposure: Data not availate	able					
	exposure: Data not availa rd: Data not available	able					
	d: Data not available	able					
spiration hazar	d: Data not available						
Spiration hazar Potential health e nhalation: Not ex ngestion: May be	 d: Data not available effects: kpected to be a health haze e harmful by ingestion. 						
Aspiration hazar Potential health of halation: Not ex ngestion: May be kin: Contact ma	d: Data not available effects: kpected to be a health haz e harmful by ingestion. by cause irritation.						
Aspiration hazar Potential health of halation: Not ex ngestion: May be kin: Contact ma syes: Contact ma	d: Data not available effects: kpected to be a health have a harmful by ingestion. y cause irritation. ay cause irritation.	zard.					
Aspiration hazar Potential health anhalation: Not ex agestion: May be kin: Contact ma yes: Contact ma igns and sympt	d: Data not available effects: xpected to be a health haz e harmful by ingestion. ny cause irritation. ay cause irritation. toms of exposure: To th	zard. ne best of our knowledge ti		and toxicological pro	perties have no	ot been thorough	ly investigated. Specific da
spiration hazar otential health halation: Not ex ngestion: May be kin: Contact ma yes: Contact ma igns and sympt ot available. Exe	d: Data not available effects: xpected to be a health haz e harmful by ingestion. ny cause irritation. ay cause irritation. toms of exposure: To th	zard. ne best of our knowledge t lures to minimize potential		and toxicological pro	perties have no	ot been thorough	ly investigated. Specific da
Aspiration hazard cotential health of halation: Not ex higestion: May be kin: Contact ma yes: Contact ma igns and sympt ot available. Exe	d: Data not available effects: xpected to be a health haz e harmful by ingestion. ny cause irritation. ay cause irritation. toms of exposure: To the ercise appropriate proced	zard. ne best of our knowledge t ures to minimize potential 425000		and toxicological pro	perties have no	ot been thorough	ly investigated. Specific da
spiration hazar otential health of halation: Not ex- ngestion: May be kin: Contact ma yes: Contact ma igns and sympt ot available. Exe dditional inform ection 12	d: Data not available effects: xpected to be a health haz e harmful by ingestion. ny cause irritation. toms of exposure: To the ercise appropriate proced mation: RTECS #: BQ44	zard. ne best of our knowledge t ures to minimize potential 425000		and toxicological pro	perties have no	ot been thorough	ly investigated. Specific da
Aspiration hazare otential health of halation: Not ex- ngestion: May be- kin: Contact ma- yes: Co	d: Data not available effects: xpected to be a health haz e harmful by ingestion. y cause irritation. ay cause irritation. toms of exposure: To the ercise appropriate proced nation: RTECS #: BQ42 Ecological inform No data available	zard. ne best of our knowledge t ures to minimize potential 425000	hazards.	and toxicological pro	perties have no	ot been thorough	ly investigated. Specific da
spiration hazar otential health othalation: Not ex- ngestion: May bé- kin: Contact ma igns and sympt ot available. Exe diditional inform ection 12 oxicity to fish: I oxicity to daphn	d: Data not available effects: xpected to be a health haz e harmful by ingestion. y cause irritation. y cause irritation. toms of exposure: To the ercise appropriate proced nation: RTECS #: BQ42 Ecological inform No data available	zard. The best of our knowledge to ures to minimize potential 125000 ation	hazards.	and toxicological pro	perties have no	ot been thorough	ly investigated. Specific da
spiration hazar otential health othalation: Not ex gestion: May be kin: Contact ma yes: Contact ma igns and sympt ot available. Exe diditional inform action 12 exciting to fish: 1 exciting to daphin oxicity to algae:	d: Data not available effects: xpected to be a health haz e harmful by ingestion. ay cause irritation. toms of exposure: To the ercise appropriate proced mation: RTECS #: BQ44 Ecological inform No data available nia and other aquatic inv	zard. te best of our knowledge t ures to minimize potential 425000 t ation vertebrates: No data avai available Bioaccum	hazards. lable ulative potential: No	o data available	perties have no	ot been thorough	ly investigated. Specific da
spiration hazar otential health ihalation: Not ex igestion: May be kin: Contact ma igns and sympt ot available. Exe diditional inform action 12 oxicity to fish: I oxicity to fish: I oxicity to algae: ersistence and obility in soil: I	d: Data not available effects: xpected to be a health haz e harmful by ingestion. ay cause irritation. ay cause irritation. toms of exposure: To the ercise appropriate proced mation: RTECS #: BQ44 Ecological inform No data available nia and other aquatic invo : No data available degradability: No data available No data available	zard. te best of our knowledge ti lures to minimize potential 425000 ation vertebrates: No data avai available Bioaccum PBT and v	hazards. lable ulative potential: No PvB assessment: N	o data available o data available		ot been thorough	ly investigated. Specific da
spiration hazar otential health ihalation: Not ex- gestion: May be- kin: Contact ma yes: Contact ma igns and sympt ot available. Exe dditional inform action 12 excicity to fish: I excicity to fish: I excicity to algae: ersistence and obility in soil: I ther adverse eff	d: Data not available effects: kpected to be a health haz e harmful by ingestion. ay cause irritation. toms of exposure: To the ercise appropriate proced mation: RTECS #: BQ44 Ecological inform No data available nia and other aquatic invo : No data available degradability: No data available fects: An environmental	zard. te best of our knowledge ti tures to minimize potential 425000 tation vertebrates: No data avai available Bioaccum PBT and v hazard cannot be exclude	hazards. lable ulative potential: No PvB assessment: N	o data available o data available		ot been thorough	ly investigated. Specific da
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ERG: Emergency Response Guidebook. Form 06/2015

GENERAL STORAGE CODE GREEN

Page E1 of E2

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	VINEGAR - WHITE	
Synonyms	Not available	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi	I: WARNING : No symbol required ns: None known fication: n (Category 2B)	Precautionary statement: P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remov contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.
	information: Hazard statement:	
H320: Cause	es eye irritation.	

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 Acetic acid		7732-18-5 64-19-7	92-96% 4-6%	231-791-2 200-580-7		
Section 4	Eirot aid maaauraa					

Section 4 First aid measures

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

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

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

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

Section 5

Fire fighting measures Suitable Extinguishing Media: Carbon dioxide, dry chemical, 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. Dangerous in contact with chromic acid, sodium peroxide, nitric acid or other oxidizing materials.

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.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Acetic acid	TWA: 10 ppm / STEL: 15 ppm	TWA: 10 ppm	TWA: 10 ppm / STEL: 15 ppm		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low. Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

	Dissel 1 1						
Section 9	Physical and che		roto (Motor = 4) 4		Destition	officients (n.c.t	
Odor: Vinegar-lik Odor threshold: pH: No data avai Melting / Freezin	No data available lable g point: ~ 0°C (~ 32°F) 100°C (212°F) [water]	Flammability Explosion lir Vapor press [water] Vapor densit	rate (Water = 1): < 1 (solid/gas): No data a nits: Upper/Lower: Nv ure (mm Hg): 14 [water y (Air = 1): 0.7 [water] sity (Specific gravity):): Complete.	o data available []	Auto-igniti Decompos Viscosity: Molecular	on temperature	e.
Section 10	Stability and read	ctivity					
Chemical stabilit Conditions to av	-	Hazard tures which cause evapora	ous polymerization: Nation.	Vill not occur.			
Incompatible ma	terials: Oxidizing agent	s, such as hydrogen perox	ide, nitric acid, perchlor	ic acid or chromiun	n trioxide. Stror	ng alkalies such a	as sodium hydroxide.
Hazardous deco	mposition products: O	xides of carbon.					
Section 11	Toxicological info	ormation					
Germ cell mutag Carcinogenity: I NTP: No compor IARC: No compor OSHA: No compor Ca Prop 65: This Reproductive to: STOT-single exp STOT-repeated e Aspiration hazar Potential health Exercise appropri Inhalation: May bu Ingestion: May bu Skin: May cause Eyes: May cause Signs and symptimes	ent of this product prese nent of this product prese product does not contain kicity: Data not available osure: Data not available xposure: Data not available effects: To the best of o ate procedures to minimi e harmful if inhaled. Ma a harmful if swallowed. irritation.	ble ent at levels greater than o sent at levels greater than o sent at levels greater than a any chemicals known to t e lable uur knowledge the chemica ize potential hazards. terial may cause irritation t a not available at this diluti	r equal to 0.1% is identi or equal to 0.1% is ident he State of California to I, physical and toxicolog o the tissue of the muco	fied as probable, p itified as a carcinog cause cancer or re gical properties hav	ossible or confir gen or potential eproductive toxi ve not been thor	med human carc carcinogen by O city. oughly investigat	inogen by IARC.
Section 12	Ecological inforn	nation					
Toxicity to daphr Toxicity to algaes Persistence and Mobility in soil:	Skeletonema costatum degradability: Readily No data available	vertebrates: Daphnia ma 300.82 mg/l / 72 hours - Io	w toxicity to algae [Ace Bioaccumulative pot PBT and vPvB asses	tic acid] ential: 0.5 (estima sment: No data a	ated) vailable		
Section 13	Disposal conside	erations					
These disposal regulations may	be different. Dispose	of in accordance with a	alog-size quantities o Il local, state and fede	nly. Federal regueral regueral regulations o	ulations may a r contract with	pply to empty c a licensed che	ontainer. State and/or loca mical disposal agency.
Section 14	Transport inforn						
UN/NA number Hazard class: Exceptions: N		Shipping name: Packing group: 1 2020 ERG Guide #	lot applicable	Reportable	Quantity: Yes	s Ma	rrine pollutant: No
Section 15	Regulatory infor						
		number for the anhydrous for	n is on the Inventory list				
Compo		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Acetic acid		Listed	5000 lbs (2270 kg)	Not listed	Not listed	Not listed	This product does not contain any chemicals known to the Sta 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.