Page E1 of E2

Section 1

Identification

INNOVATING SCIENCE "Cutting edge science for the classroom"

[®] by Aldon Corporation 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.

Signal word: WARNING Pictograms: GHS07 / GHS09 Target organs: Eyes, Skin, Mucous membranes	
Signal word: WARNING Pictograms: GHS07 / GHS09 Target organs: Eyes, Skin, Mucous membranes	
Pictograms: GHS07 / GHS09 Target organs: Eyes, Skin, Mucous membranes GHS Classification: Skin irritation (Category 2) Eye irritation (Category 2A) Acute aquatic (Category 1)	
GHS Label information: Hazard statement: H315: Causes skin irritation. H319: Causes serious eye irritation. H400: Very toxic to aquatic life.	 Precautionary statement: P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

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 Ammonium hydroxide	e (as Ammonia)		oximately 96.0% oximately 4.0%	231-791-2 215-647-6	
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: 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 SERIOUS 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 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.

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: Carefully neutralize with Sodium bicarbonate, 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 dusts/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.

ERG: Emergency Response Guidebook.

Form 06/2015

Section 8	Exposure controls / personal pro	otection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Ammonia CAS No. 7664-41-7	TWA: 17 mg/m ³ : STEL: 24 mg/m ³	TWA: 50 ppm. 35 mg/m ³	TWA: 18 mg/m ³ : STEL: 27 mg/m ³

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

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

Section 9	Physical and chen	nical properties					
• • • • •	nonia odor. Data not available. lable. nt: Approximately 0°C (32°F) (roximately 100°C (212°F) (v	Flammab Explosio Vapor pro water) Vapor de water) Relative de	ion rate (Water = 1): <1 sility (solid/gas): Data not n limits: Lower / Upper: essure (mm Hg): 14 (water nsity (Air = 1): 0.7 (water) ensity (Specific gravity): App r(ies): Complete in water.	Data not available r)	Auto-ignitio Decomposi Viscosity: Molecular f		: Data not available Ire: Data not available. ble. re
Section 10	Stability and react	ivity					
Chemical stability Conditions to avo	r: Stable id: Excessive temperatu		zardous polymerization:	Will not occur.			
ncompatible mate	erials: Acids, strong oxid	lizers, halogens, hea	vy metals.				
Hazardous decom	position products: Dec	composes to ammor	ia gas and above 450°C (8	42°F) to hydrogen g	as and nitrogen	oxides.	
Serious eye dama Respiratory or sk Germ cell mutage Carcinogenity: D NTP: No compone IARC: No compone OSHA: No compor Ca Prop 65: This p Reproductive toxi STOT-single expo STOT-repeated exp	nt of this product present ent of this product presen nent of this product presen roduct does not contain a icity: Data not available osure: The substance or	vailable ot available e at levels greater tha t at levels greater than nt at levels greater than nt at levels greater than ny chemicals knowr mixture is classified	n or equal to 0.1% is identii an or equal to 0.1% is ident nan or equal to 0.1% is ider n to the State of California to as specific target organ tox	ified as probable, po tified as a carcinoge o cause cancer or re	ssible or confirr n or potential ca productive toxic	ned human carc arcinogen by OS sity.	SHA.
Potential health e Inhalation: Burning Ingestion: Abdomi Skin: Redness, sk Eyes: Redness, pa Signs and sympto skin. Inhalation ma Additional inform	E Data not available ffects: [Ammonium hydro g sensation, cough, labor nal cramps, abdominal pa in burns, pain, blisters. ain, blurred vision, burns. coms of exposure: Mater	oxide, anhydrous] ed breathing, shortn ain, sore throat, vom ial is extremely dest pasm, inflammation 25000 [Ammonium h	ructive to tissue of the muc and edema of the larynx ar			•	and digestive tracts, eyes ar lema.
Potential health e Inhalation: Burning Ingestion: Abdomi Skin: Redness, sk Eyes: Redness, pa Signs and sympto skin. Inhalation ma Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: Persistence and d Mobility in soil: N	Data not available ffects: [Ammonium hydro g sensation, cough, laborn nal cramps, abdominal pa in burns, pain, blisters. ain, blurred vision, burns. oms of exposure: Mater ay be fatal as a result of s ation: RTECS #: BQ96: Ecological informa C50 Lepomis macrochiru ia and other aquatic inv TLm Diatom (algae) 420 legradability: No data a lo data available	oxide, anhydrous] ed breathing, shortna in, sore throat, vom ial is extremely dest pasm, inflammation 25000 [Ammonium h titon s (bluegill) 0.024-0.0 ertebrates: LC50 Di mg/L/120H @ 22°C vailable Bioac PBT a	iting, ructive to tissue of the muc and edema of the larynx ar nydroxide, anhydrous] 193 mg/L/48H aphnia magna (water flea) (nd bronchi, chemical 0.66 mg/L/48H @ 22 data available o data available	pneumonitis ar °C	•	
Potential health e Inhalation: Burning Ingestion: Abdomi Skin: Redness, sk Eyes: Redness, pa Signs and sympto Skin. Inhalation ma Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: Persistence and d Mobility in soil: N	Data not available ffects: [Ammonium hydro g sensation, cough, laborn nal cramps, abdominal pa in burns, pain, blisters. ain, blurred vision, burns. oms of exposure: Mater ay be fatal as a result of s ation: RTECS #: BQ96: Ecological informa C50 Lepomis macrochiru ia and other aquatic inv TLm Diatom (algae) 420 legradability: No data a lo data available	oxide, anhydrous] ed breathing, shortna in, sore throat, vom ial is extremely dest pasm, inflammation 25000 [Ammonium h tion s (bluegill) 0.024-0.0 ertebrates: LC50 Da mg/L/120H @ 22°C vailable Bioac PBT a nazard cannot be ext	iting, ructive to tissue of the muc and edema of the larynx ar lydroxide, anhydrous] 993 mg/L/48H aphnia magna (water flea) ((50% growth reduction) cumulative potential: No und vPvB assessment: No	nd bronchi, chemical 0.66 mg/L/48H @ 22 data available o data available	pneumonitis ar °C	•	
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Potential health e Inhalation: Burning Ingestion: Abdomi Skin: Redness, sk Eyes: Redness, pa Signs and sympto skin. Inhalation ma Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to fish: L Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effor Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: N Exceptions: No	Data not available ffects: [Ammonium hydro g sensation, cough, labor nal cramps, abdominal pr in burns, pain, blisters. ain, blurred vision, burns. oms of exposure: Mater ay be fatal as a result of s ation: RTECS #: BQ96: Ecological informa C50 Lepomis macrochiru ia and other aquatic invo TLm Diatom (algae) 420 legradability: No data a lo data available ects: An environmental h Disposal consider uide different. Dispose o Transport informa Not applicable ot applicable	bxide, anhydrous] ed breathing, shortna in, sore throat, vom ial is extremely dest pasm, inflammation 25000 [Ammonium h tition s (bluegill) 0.024-0.0 ertebrates: LC50 Da mg/L/120H @ 22°C vailable Bioac PBT a hazard cannot be exe ations for the disposal of f in accordance wi tition Shipping name Packing group 2020 ERG Guid	iting, ructive to tissue of the muc and edema of the larynx ar nydroxide, anhydrous] 093 mg/L/48H aphnia magna (water flea) ((50% growth reduction) cumulative potential: No und vPvB assessment: No cluded in the event of unpro-	nd bronchi, chemical 0.66 mg/L/48H @ 22 data available o data available ifessional handling o only. Federal regul	pneumonitis ar °C r disposal. ations may ap contract with	nd pulmonary ed	lema.
Potential health e Inhalation: Burning Ingestion: Abdomi Skin: Redness, sk Eyes: Redness, pa Signs and sympto skin. Inhalation ma Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to fish: L Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effor Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: N Exceptions: No	Data not available ffects: [Ammonium hydro g sensation, cough, labor nal cramps, abdominal pr in burns, pain, blisters. ain, blurred vision, burns. oms of exposure: Mater ay be fatal as a result of s ation: RTECS #: BQ96: Ecological informa C50 Lepomis macrochiru ia and other aquatic invo TLm Diatom (algae) 420 legradability: No data a lo data available ects: An environmental h Disposal consider uide lines are intended be different. Dispose o Transport informa Not applicable Not applicable Regulatory inform	bxide, anhydrous] ed breathing, shortna in, sore throat, vom ial is extremely dest pasm, inflammation 25000 [Ammonium h tition s (bluegill) 0.024-0.0 ertebrates: LC50 Da mg/L/120H @ 22°C vailable Bioac PBT a hazard cannot be exe ations for the disposal of f in accordance within Shipping name Packing group 2020 ERG Guid ation	iting, ructive to tissue of the muc and edema of the larynx ar hydroxide, anhydrous] 93 mg/L/48H aphnia magna (water flea) ((50% growth reduction) cumulative potential: No ind vPvB assessment: No cluded in the event of unpro- catalog-size quantities of th all local, state and fed e: Not Regulated b: Not applicable de # Not applicable	nd bronchi, chemical 0.66 mg/L/48H @ 22 data available o data available ifessional handling o inly. Federal regul eral regulations or	pneumonitis ar °C r disposal. ations may ap contract with	nd pulmonary ed	ontainer. State and/or loo mical disposal agency.
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Potential health e Inhalation: Burning Ingestion: Abdomi Skin: Redness, sk Eyes: Redness, pa Signs and sympto skin. Inhalation ma Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to fish: L Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: N Exceptions: No Section 15	Data not available ffects: [Ammonium hydro g sensation, cough, labor nal cramps, abdominal p in burns, pain, blisters. ain, blurred vision, burns. oms of exposure: Mater ay be fatal as a result of s ation: RTECS #: BQ96: Ecological informa C50 Lepomis macrochiru ia and other aquatic invo TLm Diatom (algae) 420 legradability: No data a lo data available ects: An environmental F Disposal consider uide different. Dispose o Transport informa Not applicable to applicable Regulatory inform red to be listed if the CAS nu nent	bxide, anhydrous] ed breathing, shortna in, sore throat, vom ial is extremely dest pasm, inflammation 25000 [Ammonium h tition s (bluegill) 0.024-0.0 ertebrates: LC50 Da mg/L/120H @ 22°C vailable Bioac PBT a hazard cannot be exe ations for the disposal of f in accordance within Shipping name Packing group 2020 ERG Guid ation	iting, ructive to tissue of the muc and edema of the larynx ar hydroxide, anhydrous] 93 mg/L/48H aphnia magna (water flea) ((50% growth reduction) cumulative potential: No ind vPvB assessment: No cluded in the event of unpro- catalog-size quantities of th all local, state and fed e: Not Regulated b: Not applicable de # Not applicable s form is on the Inventory list. A CERLCA (RQ)	nd bronchi, chemical 0.66 mg/L/48H @ 22 data available o data available ifessional handling o inly. Federal regul eral regulations or	pneumonitis ar °C r disposal. ations may ap contract with	nd pulmonary ed	ontainer. State and/or loo mical disposal agency.

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE "Cutting edge science for the classroom"

by Aldon Corporation 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 DEIONIZED WATER	
Synonyms Hydrogen Oxide / Distilled Water	
Section 2 Hazards identification	
Section 2Hazards identificationThis substance has not been classified at this time according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.Signal word: Not a hazardous substance Pictograms: Not a hazardous substance Target organs: None knownGHS Classification: Not a hazardous substanceGHS Label information: Hazard statement: Not a hazardous substance Precautionary statement(s): Not a hazardous substance	Supplemental information: Avoid contact with DANGEROUS WHEN WET and WATER-REACTIVE materials. For laboratory use only. Do not ingest.
Hazards not otherwise classified: Health hazards not otherwise classified (HHNOC) - Not Known Division hazards not otherwise classified (DUNOC) - Not Known	1
Physical hazards not otherwise classified (PHNOC) - Not Known Section 3 Composition / information on ingredients	

Section 3	Composition / information on ingredients						
Chemical Name		CAS #	%	EINECS			
Deionized water		7732-18-5	100%	231-791-2			
Section 4	First aid measures	1					

Uncontaminated water should not pose any ill health effects. If ill effects develop, get immediate medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Not a fire hazard. Water is used for extinguishing fires.

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: Avoid contact with DANGEROUS WHEN WET and WATER-REACTIVE materials. See Section 10.

Section 6 Accidental release measures

Personal Precautions: Uncontaminated material poses no hazards.

Environmental Precautions: Uncontaminated material may be flushed to sewer.

Containment and Cleanup: Uncontaminated material may be flushed to sewer.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Not for drug, food or household use. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Wash thoroughly after handling.

Conditions for Safe Storage: Store in a cool area away from water-reactive or dangerous when wet substances.

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Linits.	None listed	None listed	None listed	None listed			

Engineering controls: None required.

Respiratory protection: None required.

	Physical and cher	mical prope	erties					
Appearance: Clea Odor: No odor. Odor threshold: D pH: Data not availa Melting / Freezing Boiling point: 100 Flash point: Not fl	Data not available able point: 0°C (32°F) °C (212°F)	FI E: Va Va R	lammability (s xplosion limit apor pressure apor density (y (Specific gravity)		Auto-ignitio Decomposi Viscosity: Molecular f	on temperature	ctanol / water): Data not availat : Not flammable ire: Data not available. ole.
Section 10	Stability and react	tivity						
Chemical stability Conditions to avo	: Stable id: Absorption of fumes	and carbon		us polymerization:	Will not occur.			
	erials: Water-reactive m		0	calcium, barium, alka	ali metal alloys, liquid	amalgams, am	ides, carbides,	hydrides, aluminum powders,
Hazardous decom	position products: Ele	ctrolysis will	produce explo	osive and flammable	hydrogen and oxyge	n.		
Section 11	Toxicological info	rmation						
IARC: No compone OSHA: No compone Ca Prop 65: This p Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health e Inhalation: No ill eff Skin: No ill effects Eyes: No ill effects	nt of this product present ent of this product present nent of this product present roduct does not contain a icity: Data not available sure: Data not available sposure: Data not available ffects: ffects expected. fects expected. expected.	nt at levels gr ent at levels g any chemica e e able	reater than or o greater than or als known to th	equal to 0.1% is ider equal to 0.1% is ide	tified as probable, po ntified as a carcinoge	ossible or confir en or potential c	med human car arcinogen by O	
• • •	ation: RTECS #: Data							
Section 12	Ecological information	ation						
Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal g	legradability: No data a lo data available acts: An environmental I Disposal conside uidelines are intended	available hazard canno rations I for the disp of in accord	Bioaccumu PBT and vF ot be excluded	Ilative potential: No PvB assessment: No I in the event of unpr log-size quantities	lo data available ofessional handling o only. Federal regu	lations may ap		container. State and/or loca emical disposal agency.
	Not applicable		na namo: N	lot Regulated				
Hazard class:	Not applicable	Packing	g group: N	ot applicable Not applicable	Reportable Qu	antity: No	М	arine pollutant: No
	Regulatory inform			11				
Exceptions: N			anhydrous form	is on the Inventory list.				
Exceptions: N Section 15	red to be listed if the CAS n		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Exceptions: N Section 15			1004		Renaroodo			
Exceptions: N Section 15 A chemical is consider	nent		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.
Exceptions: N Section 15 A chemical is consider Compo						Listed	Not listed	any chemicals known to the Stat of California to cause cancer or

FLAMMABLE STORAGE CODE RED

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Section 1

Identification

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

Product ETHYL ALCOHOL, DENATURED, ANHYDROUS	
Synonyms Ethanol, Denatured, Anhydrous	
Section 2 Hazards identification	
Signal word: DANGER Pictograms: GHS02 / GHS06 / GHS08 Target organs: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: David Statement: Flammable liquid (Category 2) Acute toxicity, oral (Category 3) Acute toxicity, inhalation (Category 3) Acute toxicity, inhalation (Category 3) Acute toxicity, inhalation (Category 3) STOT-SE (Category 2) STOT-SE (Category 3) GHS Label information: Hazard statement: H225: Highly flammable liquid and vapour. H301: Toxic if swallowed. H311: Toxic if on contact with skin. H319: Causes serious eye irritation. H331: Toxic if inhaled. H332: Toxic if inhaled. H331: Toxic if malade. H331: Toxic if malade. H332: Toxic if inhaled. H332: May cause domosiness or dizziness. H371: May cause damage to organs.	 Precautionary statement: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233+P235: Keep container tightly closed. Keep cool. 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. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303+P361+P353: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor. P337+P313: If eye irritation persists: Get medical attention. P361+P364: Take off immediately all contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. P403+P405: Store in a well-ventilated place. Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in
Hazards not otherwise classified:	accordance with local/regional/national regulations.

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

Section 3	on 3 Composition / information on ingredients							
Chemical Name		CAS #	%	EINECS				
Ethyl alcohol Isopropyl alcohol Methanol		64-17-5 67-63-0 67-56-1	85.0 - 85.8% 9.0% 4.0 - 4.3%	200-578-6 200-661-7 200-659-6				
Methyl isobutyl ketor	ne	108-10-1	0.9 - 1.0%	203-550-1				

Section 4 First aid measures

INGESTION: TOXIC 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: TOXIC 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 SERIOUS 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: TOXIC IN CONTACT WITH 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.

Accidental release measures Section 6

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 protection						
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	perties					
Odor: Mild character Odor threshold: Dat pH: Data not availabl Melting / Freezing po Boiling point: 74-80	pearance: Clear, colorless liquid. Evaporation rate (Butyl acetate = 1): Ca 2 Partition coefficient: (n-octanol / water): Lo ior: Mild characteristic odor. Flammability (solid/gas): Data not available. Partition coefficient: (n-octanol / water): Lo ior threshold: Data not available. Explosion limits: Lower / Upper: 3.3% / 19.0% Partition coefficient: (n-octanol / water): Lo						
Section 10	Stability and reactivity				1		
Chemical stability: S Conditions to avoid:	Stable Excessive temperatures, heat		e and other sources				
Incompatible materi	als: Strong oxidizers, inorganic	acids and halogen	S.				
Hazardous decompo	osition products: Oxides of ca	rbon.					
Section 11	Toxicological information						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutagenic Carcinogenity: Data NTP: No component IARC classified: Grou OSHA: No component CA Prop 65: A WARI cancer and birth defe Reproductive toxicit STOT-single exposu STOT-repeated expo Aspiration hazard: I Potential health effe Inhalation: Inhalation Ingestion: Ingestion of Skin: Contact with sk Eyes: Contact with e Signs and symptom Additional informati	Section 11 Toxicological information Acute toxicity: Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours Skin corrosion/irritation: Skin-rabbit - Slight irritant. Respiratory or skin sensitization: Data not available Germ 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 classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol] 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. CA Prop 65: \triangle WARNING1: This product can expose you to chemicals including Methanol and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm. Reproductive toxicity: Data not available STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. STOT-repeated exposure: Data not available Potential health effects: Inhalation: Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Ingestion: Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma. Skin: Contact with skin causes irri						
Section 12 Ecological information Toxicity to fish: Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacia), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure] Toxicity to algae: Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute] 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							
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 UN/NA number:	Transport information	name: Ethanol					
Hazard class: 3	Packing g ted quantity equal to or less	roup: II		ble Quantity: No G Guide # 127)	Mar	ine pollutant: No
Section 15	Regulatory information						
	to be listed if the CAS number for the	he anhydrous form is o	on the Inventory list.				
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol Methanol Isopropanol		Listed Listed Listed	Not listed 5,000 lbs. Not listed	D001 U154 Not listed	Listed Listed Listed	Not listed Not listed Not listed	WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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 Corporation 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 Classin Eye irritation	(Category 2B)	Precautionary statement: P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.
	information: Hazard statement: 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
 7732-18-5
 92-96%
 231-791-2

 Acetic acid
 64-19-7
 4-6%
 200-580-7

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.

Section 7 Handling and storage

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

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

Section 8	Exposure controls / personal protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)				
Exposure 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.

Section 9	Physical and che		roto (Motor = 4) 4		Destition	officients (n.ct	al (watar). Na data avail-t-
Odor: Vinegar-lik Odor threshold: pH: No data avai Melting / Freezin	No data available ilable g point: ~ 0°C (~ 32°F) 100°C (212°F) [water]	Flammability Explosion lin 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	э.
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 agents	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 infe	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 sympi Additional inform	hent of this product prese onent of this product prese product does not contain xicity: Data not available osure: Data not available exposure: Data not available effects: To the best of o ate procedures to minimi be harmful if inhaled. Mare harmful if swallowed. irritation.	ble int at levels greater than or int at levels greater than o sent at levels greater than any chemicals known to t e le lable ur 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 toxio re not been thor	med human carc carcinogen by OS city. oughly investigat	inogen by IARC.
Section 12	Ecological inform	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 - Ic	w toxicity to algae [Ace Bioaccumulative pot PBT and vPvB asses	tic acid] ential: 0.5 (estima sment: No data a	ited) 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	lations may a r contract with	pply to empty control a licensed che	ontainer. State and/or loca mical disposal agency.
Section 14	Transport inform						
UN/NA number Hazard class: Exceptions: N		Shipping name: Packing group: 2020 ERG Guide #	lot applicable	Reportable	Quantity: Yes	s Ma	rine pollutant: No
Section 15	Regulatory inforr						
		number for the anhydrous forr	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.