SAFETY DATA SHEET

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roo

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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.

ETHYL ALCOHOL, DENATURED, 95% Product Synonyms Ethanol, Denatured, 95% Section 2 Hazards identification Signal word: DANGER **Precautionary statement:** Pictograms: GHS02 / GHS06 / GHS08 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking Target organs: Eyes, Central nervous system, Liver, Kidneys. 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. **GHS Classification:** P264: Wash hands thoroughly after handling. Flammable liquid (Category 2) P270: Do not eat, drink or smoke when using this product. Acute toxicity, oral (Category 3) P271: Use only outdoors or in a well-ventilated area. Acute toxicity, dermal (Category 3) P280: Wear protective gloves/protective clothing/eye protection/face protection. Acute toxicity, inhalation (Category 3) P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Eye irritation (Category 2B) P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove STOT-SE (Category 2) contact lenses, if present and easy to do. Continue rinsing. STOT-SE (Category 3) P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. GHS Label information: Hazard statement: P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for H225: Highly flammable liquid and vapour. breathing. H301: Toxic if swallowed. P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor. H311: Toxic in contact with skin. P337+P313: If eye irritation persists: Get medical attention. H319: Causes serious eye irritation. P361+P364: Take off immediately all contaminated clothing and wash it before reuse. H331: Toxic if inhaled. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water H336⁻ May cause drowsiness or dizziness spray to extinguish. H371: May cause damage to organs. P403+P405: Store in a well-ventilated place. Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

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

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Ethyl alcohol		64-17-5	80.75 - 81.51%	200-578-6		
Isopropyl alcohol		67-63-0	8.55%	200-661-7		
Water		7732-18-5	5.00%	231-791-2		
Methanol		67-56-1	3.80 - 4.08%	200-659-6		
Methyl isobutyl ketone	9	108-10-1	0.85 - 0.95%	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.

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 protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linius.	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/MSHA-

Boiling point: 74-8 Flash point: 5°C (4 Section 10 Chemical stability: Conditions to avoid Incompatible mate	aristic odor. ata not available. obint: -114°C (-173°F)* 0°C (165.2-176°F)* 1°F)* Stability and reactivity	Flammability (s Explosion limits Vapor pressure Vapor density (Relative density (te (Butyl acetate = 1): olid/gas): Data not av s: Lower / Upper: 4.1 (mm Hg): Ca 50 @ 2 Air = 1): Ca 1.5* Specific gravity): 0.7919- Soluble in water.	vailable. 0%(V) / 20.0%(V)* 20°C*	Auto-igniti Decompos Viscosity: Molecular	ion temperature: sition temperatur Data not availabl formula: Mixture	re: Data not available. e
Chemical stability: Conditions to avoid Incompatible mate					moleculdi	weight: Mixture	*[Ethanol]
Conditions to avoid incompatible mate	Stable						
	d: Excessive temperatures, he rials: Strong oxidizers, inorgar position products: Oxides of	at, sparks, open flai nic acids and haloge					
Section 11	Toxicological information	n					
Respiratory or skin Germ cell mutager Carcinogenity: Da NTP: No componen IARC classified: Gro OSHA: No compone CA Prop 65: A WAF cancer and birth def Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Inhalatic Ingestion: Ingestior Skin: Contact with s Eyes: Contact with Signs and symptor	t of this product present at leve oup 3: Not classifiable as to its of ent of this product present at leve RNING! : This product can expo ects or other reproductive harm ity: Data not available sure: The substance or mixture bosure: Data not available Data not available	able Is greater than or ec carcinogenicity to hu rels greater than or ose you to chemical: h. e is classified as spe ness, nausea, vomi , decreased reactior in prolonged contac Il health effects abo	Imans. [Isopropanol] equal to 0.1% is identi s including Methanol a ecific target organ toxic ting, inability to concer n, euphoria, nausea, vo t.	ified as a carcinoge and Methyl isobutyl cant, single exposu ntrate and irritation	en or potential of ketone, which re, category 3 of the throat.	carcinogen by OS are known to the with narcotic effect	State of California to cause
Section 12	Ecological information						
Toxicity to daphnia Toxicity to algae: C Persistence and de Mobility in soil: No	acorhynchus mykiss (fish, fresh and other aquatic invertebra ihlorella pyrenoidosa (Algae), E gradability: No data available data available cts: An environmental hazard o Disposal considerations	tes: Daphnia magn C50 = 9,310 mg/l/g Bioaccumu PBT and vP cannot be excluded	na (Crustacia), EC50 = prowth rate [Ethanol, at lative potential: No d PvB assessment: No	: 10,800 mg/l/24 ho bsolute] data available data available	•	19.8% pure]	
These disposal gu	idelines are intended for the e different. Dispose of in ac	disposal of catal	og-size quantities or	ly. Federal regulations or	lations may a	ipply to empty c	ontainer. State and/or loc
Section 14	Transport information			rai regulations of		r a noorised offe	anioar disposar agency.
UN/NA number:	•	g name: Ethano	I				
Hazard class: 3	Packing nited quantity equal to or les	group: II	•	ble Quantity: 5,0 G Guide # 127)00 lbs (2270) kg) Ma	arine pollutant: No
Section 15	Regulatory information		2024 ERC				
	ed to be listed if the CAS number fo	r the anhydrous form i	s on the Inventory list.				
Compon		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Compon						-	

Employers should use 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.