

Safety Data Sheet (SDS)

Section 1: Chemical Product and Company Identification

Cat#: 29275

Part Name: Ethanol SDA 3A 200 Proof

Supplier: Decon Laboratories Inc.

460 Glennie Circle King of Prussia, PA 19406
SDS Telephone # (610) 755-0800

Emergency Telephone Numbers

US Chemtrec: (800) 424-9300

Canada: (703) 527-3887

Identified uses: Laboratory use

Section 2: Hazards Identification:

Hazard Overview

GHS CLASSIFICATIONS

Health:

Flammable Liquids, Category 2

Acute Toxicity (Oral), Acute 2

GHS LABEL



SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed

H301: Toxic if swallowed

H225: Highly flammable liquid and vapor

H315 + H320 Causes skin and eye irritation.

PRECAUTIONARY STATEMENT(S)

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray

P311: Call a POISON CENTER or doctor/physician

P403+P233: Store in a well-ventilated place. Keep container tightly closed

P102: Keep out of reach of children

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: DANGER! Poison. Flammable. Contains methanol. Cannot be made non- poisonous. Liquid and vapor harmful. May be fatal or cause blindness if swallowed. Avoid prolonged breathing of vapors. Avoid contact with eyes and skin. Use only in well ventilated areas.

POTENTIAL HEALTH EFFECTS

EYES: Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness, swelling and eye damage.

SKIN: Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: POISONOUS. May be fatal or cause blindness if swallowed. Ingestion may have a narcotic effect including signs of CNS depression such as dizziness, headache, drowsiness, loss of coordination, and fatigue.

INHALATION: Excessive exposure to this product may cause headache, CNS depression, drowsiness, dizziness, loss of appetite, irritation of the respiratory tract, drunkenness, unconsciousness, or death.

MEDICAL CONDITIONS AGGRAVATED: Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

COMMENTS HEALTH: Ethanol denatured by more than 4% by weight of methanol cannot be made non- poisonous. Therefore Ethanol SDA 3A 200 Proof is not a consumable product.

NFPA Rating

Hazard Ratings:

These ratings are Decon Laboratories Inc.'s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and list 49).

If no data is listed the information is not available

Health 2 Flammability 3 Reactivity 0

Section 3: Composition/ Information on ingredients

Note: Items listed with a CASRN number have no CAS# available

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Item#	Name	CAS #	% in Product
1	Ethanol	64-17-5	89-91
2	Methanol	67-56-1	2-4

Section 4: First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN: Flush skin with water. If irritation occurs, get medical attention.

INGESTION: Call poison control center or get medical help immediately. If patient is conscious and alert, give 8 ounces of water or juice and induce vomiting, keeping patient's head below hips to prevent aspiration of liquid into lungs. Never induce vomiting on an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, and nausea.

Section 5: Fire-Fighting Measures

EXTINGUISHING MEDIA: Use "alcohol resistant" foam, dry chemical, or CO₂. Water may be ineffective, but water applied as a spray can absorb some of the fire's heat and should be used to keep fire-exposed containers cool.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

EXPLOSION HAZARDS: When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

FIRE FIGHTING PROCEDURES: WARNING. Poisonous and Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

Section 6: Accidental Release measures

GENERAL PROCEDURES: WARNING. Poisonous and Flammable Liquid. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and

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respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

Section 7: Handling and Storage

GENERAL PROCEDURES: Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

Section 8: Exposure Controls/ Personal Protection

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Ethanol	TWA	1000	1900	1000	1884	400	980
	STEL					400	1,225
Methanol	TWA	200	260	200	262		
	STEL			250	328		

ENGINEERING CONTROLS: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING: Where splashing is possible, wear impervious clothing and boots.

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WORK HYGIENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

COMMENTS: May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

PHYSICAL STATE: Liquid

ODOR: Mild odor

COLOR: Clear, colorless liquid

pH: NA = Not Applicable

PERCENT VOLATILE: 100

FLASHPOINT AND METHOD: (52°F) -57°F TAG CC

FLAMMABLE LIMITS: 0.06 to 0.36

AUTOIGNITION TEMPERATURE: Not Determined

VAPOR PRESSURE: 96

VAPOR DENSITY: Heavier than air

BOILING POINT: (147°F) to (241°F)

FREEZING POINT: NDA = no data available

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE: Slower than ether

DENSITY: 6.61

SPECIFIC GRAVITY: 0.79 to 1.0

(VOC): 6.588 to 6.61 LBS./gal

Section 10: Stability and Reactivity:

REACTIVITY: Yes

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion. There should be no decomposition if stored and applied as directed

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids, strong alkalies

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Section 11: Toxicological Information

REPRODUCTIVE EFFECTS: This product contains ethanol. Alcoholic beverage consumption has been associated with birth defects in humans. The relevance of this finding to ethanol exposure in industrial environments is uncertain.

TARGET ORGANS: This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain. Laboratory studies have shown that petroleum distillates may cause kidney, liver, or lung damage. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TERATOGENIC EFFECTS: No evidence of teratogenicity was noted following inhalation exposure of pregnant rats by airborne concentrations of up to 16,000 ppm of ethyl alcohol for 7 hours on days 1 through 19 of gestation.

COMMENTS: Poison. May be fatal or cause blindness, if swallowed. Cannot be made nonpoisonous.

Section 12: Ecological Information

ECOTOXICOLOGICAL INFORMATION: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

Section 13: Disposal Considerations

DISPOSAL METHOD: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

RCRA/EPA WASTE INFORMATION: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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Section 14: Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Alcohols (Ethanol), n.o.s.

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN 1987

PACKING GROUP: II

NAERG: 127

LABEL: Flammable liquid

Note: sizes 1 Liter or less ship as Limited Quantity

Section 15: Regulatory Information

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable Liquid

R7: May cause fire.

R48/25: Toxic : danger of serious damage to health by prolonged exposure if swallowed.

S15: Keep away from heat.

S23: Do not breathe gas/fumes/vapour/spray.

S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S62: If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

CHRONIC: Yes

313 REPORTABLE INGREDIENTS: Methyl alcohol (CAS 67-56-1)

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: To the best of our knowledge, none of the chemicals in this product are listed as an extremely hazardous substance under Section 302 of SARA Title III nor does this product contain any other such substances.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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TSCA REGULATORY: This product is a mixture and each component is listed in the TSCA Inventory of Chemical Substances.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable
Liquid



Toxic

R39/26/28: Very toxic : danger of very serious irreversible effects through inhalation and if swallowed.

R7: May cause fire.

S56: Dispose of this material and its container at hazardous or special waste collection point.

S23: Do not breathe gas/fumes/vapour/spray.

S1/2: Keep locked up and out of reach of children.

US. California Proposition 65



WARNING: This product can expose you to chemicals including Methanol which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

GENERAL COMMENTS: The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Section 16: Other Information

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End of Safety Data Sheet