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Section 1: PRODUCT IDENTIFICATION

Product Name: **Ethyl Alcohol, Anhydrous**
General or Generic ID: Alcohol, Ethyl Alcohol, Ethanol, and Grain Alcohol

Section 2: HAZARDS IDENTIFICATION

Signal word: **DANGER**

Hazard statement(s)

- H225 - Highly flammable liquid and vapor.
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H370 - Causes damage to organs.

Precautionary statement(s)

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 - Keep container tightly closed.
- P235 - Keep cool.
- P240 - Ground and bond container and receiving equipment.
- P241 - Use explosion-proof equipment.
- P242 - Use non-sparking tools.
- P243 - Take action to prevent static discharges.
- P260 - Do not breathe vapors.
- 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, and eye protection.
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER if you feel unwell.
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing Rinse skin with water [or shower].
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P370 + P378 - In case of fire: Use appropriate media for extinction.
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.
- P501 - Dispose of contents into an approved container/waste stream.



Section 3: COMPONENTS

<u>INGREDIENT</u>	<u>CAS #</u>	<u>% (BY WT.)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ethyl Alcohol	64-17-5	99-100	1000 ppm	1000 ppm

Section 4: FIRST AID

IF ON SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.
IF IN EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.
IF SWALLOWED: Immediately drink two glasses of water and induce vomiting by either giving IPECAC syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person, get medical attention immediately.
IF BREATHED: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.
PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT

Section 5: FIRE AND EXPLOSION INFORMATION

EXTINGUISHING MEDIA: Alcohol foam or water fog or carbon dioxide or dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials, carbon dioxide and carbon monoxide, etc.

FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

SPECIAL FIRE & EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights. Other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

NFPA CODES: HEALTH - 0 FLAMMABILITY - 3 REACTIVITY - 0

Section 6: ACCIDENTAL RELEASE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood.

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Stop spill at source, dike area or spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs notify proper authorities as required that a spill has occurred.

Section 7: HANDLING AND STORAGE

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid). It is good practice to triple rinse with water empty drums. All hazard precautions given in this datasheet must be observed. Store material away from heat and flames. Above ground storage must meet applicable codes.

Section 8: EXPOSURE CONTROL, PERSONAL PROTECTIVE EQUIPMENT

PERMISSIBLE EXPOSURE LEVEL: See Section 2.

EFFECTS OF ACUTE OVEREXPOSURE:

EYES: Can cause moderate irritation, redness, tearing.

SKIN: Can cause slight irritation.

BREATHING: Excessive inhalation of vapors can cause nasal and respiratory irritation.

SWALLOWING: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

EFFECTS OF CHRONIC OVEREXPOSURE:

Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: liver abnormalities.

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: liver abnormalities, eye damage. Can cause dermatitis of the skin on prolonged or repeated exposure.

RESPIRATORY PROTECTION: If workplace exposure limit(s) of product or any component is exceeded, (section II) a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION: Provide sufficient mechanical or general ventilation to maintain exposure below TLV(s).

PROTECTIVE GLOVES: Wear resistant gloves such as neoprene.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses (consult your safety equipment supplier).

OTHER PROTECTIVE EQUIPMENT: To prevent repeated or prolonged skin contact, wear impervious clothing/boots.

Section 9: PHYSICAL PROPERTIES

FLASH POINT: (Tag closed cup) 57.0 °F (14.0 °C)

EXPLOSIVE LIMIT: LOWER 4.3% UPPER 19.0%

Boiling Point: 173 °F (78 °C) @ 760.00 mm Hg

Vapor Pressure: 45.00 mm Hg @ 68.00 °F (20.0 °C)

Specific Vapor Density: HEAVIER THAN AIR

Specific Gravity: 0.7942 - 0.7962 @ 60.00 °F (15.55 °C)

Appearance and Odor: Clear, colorless, volatile liquid with characteristic alcohol odor.

pH: 6.5-9.0

Section 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Cannot occur

STABILITY: Stable

INCOMPATIBILITY: Avoid contact with strong oxidizing agents and strong inorganic acids.

Section 11: TOXICOLOGICAL INFORMATION

Ethyl Alcohol LD50 Acute Oral 7060 mg/kg (Rat)

Ethyl Alcohol LD50 Acute Oral 3450 mg/kg (Mouse)

Ethyl Alcohol LD50 Acute Dermal 20000 mg/kg (Rabbit)

Section 12: ECOLOGICAL INFORMATION

LC50: 96 hrs (fathead minnows) 14,200 mg/l

LC50: (daphnia, ceriodaphnia) 5,000 mg/l

Section 13: WASTE DISPOSAL CONSIDERATIONS

SMALL SPILL: Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material in accordance with applicable regulations.

LARGE SPILL: Destroy by liquid incineration.

Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification: Hazardous FLAMMABLE LIQUID (173.115)

Placard Identification: UN1170, 3, PG II

Section 15: REGULATORY

SARA Section 302 (Extremely Hazardous Substance): Not Applicable

SARA Section 313 (Toxic Chemicals): Not Applicable

CERCLA: Not Applicable

CAA 112 (r): Not Applicable

RCRA: Not Applicable

Section 16: OTHER

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

The information accumulated herein is believed to be accurate, but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.