



MSDS (Material Safety Data Sheet) for **Ethyl Alcohol 96%**:

Section 1: Identification

Product Name: Ethyl Alcohol 96%

Synonyms: Ethanol, Grain alcohol

CAS Number: 64-17-5

Chemical Formula: C₂H₅OH

Manufacturer: HD Chemicals LTD

Address: 9 Scott Business Park, PL2 2PB Plymouth UK

Section 2: Hazard Identification

Classification:

- Flammable liquid (Category 2)
- Eye irritant (Category 2B)
- Harmful if swallowed (Category 4)
- Harmful in contact with skin (Category 4)

GHS Label Elements:

- Signal Word: Danger
- Hazard Statements:
 - Highly flammable liquid and vapor.
 - Causes eye irritation.
 - Harmful if swallowed.
 - May cause skin irritation.



- Precautionary Statements:

- Keep away from heat, sparks, open flames, and hot surfaces.
- Avoid breathing vapor.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF ON SKIN: Wash with plenty of soap and water.

Section 3: Composition/Information on Ingredients

Chemical Name: Ethyl Alcohol

CAS Number: 64-17-5

Concentration: 96%

Other Components: Water

Section 4: First Aid Measures

Inhalation:

- Move to fresh air. If breathing difficulties occur, seek medical attention immediately.

Ingestion:

- Rinse mouth. Do NOT induce vomiting. Seek medical attention.

Skin Contact:

- Remove contaminated clothing. Wash skin with plenty of soap and water. If irritation persists, seek medical attention.



Eye Contact:

- Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

Section 5: Firefighting Measures

Extinguishing Media:

- Use alcohol-resistant foam, carbon dioxide (CO₂), dry chemical, or water fog to extinguish fires.

Firefighting Instructions:

- Wear self-contained breathing apparatus and full protective gear. Evacuate the area immediately.

Section 6: Accidental Release Measures

Personal Precautions:

- Wear protective equipment to prevent skin and eye contact. Avoid breathing vapor.

Environmental Precautions:

- Do not allow to enter drains, watercourses, or soil. Inform the relevant authorities if the product has contaminated the environment.

Cleanup Procedures:

- Absorb spill with inert material (e.g., sand or vermiculite). Transfer to a suitable, labeled container for disposal.



Section 7: Handling and Storage

Handling Precautions:

- Keep away from heat, sparks, open flames, and hot surfaces. Use only in well-ventilated areas.

Storage Conditions:

- Store in a cool, well-ventilated area. Keep tightly closed in a properly labeled container.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

- Use local exhaust ventilation to maintain airborne concentrations below the exposure limits.

Personal Protective Equipment (PPE):

- Eye/Face Protection: Safety glasses or goggles.
- Skin Protection: Wear gloves and protective clothing as necessary.
- Respiratory Protection: If ventilation is inadequate, use a NIOSH-approved respirator.

I apologize for the incomplete response. Here's the continuation of Section 9 and the subsequent sections of the MSDS for Ethyl Alcohol 96%:

Section 9: Physical and Chemical Properties

Flash Point: 13 °C (55 °F)

Flammability: Flammable

Density: 0.789 g/cm³



Solubility: Miscible in water

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid:

- Heat, flames, sparks, and other ignition sources.
- Incompatible materials.

Incompatible Materials:

- Strong oxidizing agents
- Acids
- Alkalis

Hazardous Decomposition Products:

- Carbon monoxide
- Carbon dioxide

Section 11: Toxicological Information

Acute Toxicity:

- Inhalation: Harmful if inhaled. May cause drowsiness, dizziness, and irritation of the respiratory tract.
- Ingestion: Harmful if swallowed. May cause gastrointestinal irritation, nausea, and vomiting.
- Skin Contact: May cause skin irritation and dermatitis.
- Eye Contact: May cause eye irritation, redness, and discomfort.



Chronic Toxicity:

- Prolonged or repeated exposure may cause liver and kidney damage, and central nervous system effects.

Section 12: Ecological Information

Ethyl alcohol is highly toxic to aquatic life and can have long-lasting effects on aquatic environments.

Section 13: Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Do not pour into drains or watercourses.

Section 14: Transport Information

UN Number: 1170

Proper Shipping Name: Ethanol

Transport Hazard Class: 3 (Flammable Liquid)

Packing Group: II

Section 15: Regulatory Information

Refer to local, regional, and national regulations for specific requirements and restrictions regarding the use, handling, and disposal of ethyl alcohol.

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Revision no. 02



Submit date: 05/06/2022

Section 16: Other Information

This MSDS provides information on the safety aspects of ethyl alcohol 96%. It does not address any specific product applications. The information presented here is accurate to the best of our knowledge, but no warranty, expressed or implied, is made regarding its accuracy or completeness. The user assumes all risks and liabilities arising from the handling and use of this product.