

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Acid Alcohol, 0.5%  
**SYNONYMS:** None  
**PRODUCT CODES:** ES824, ES825, ES826

**MANUFACTURER:** Azer Scientific, Inc.  
**ADDRESS:** 701 Hemlock Rd, Morgantown, PA 19543

**CHEMTREC PHONE:** 800-424-9300  
**SUPPORT:** 610-524-5810  
**FAX:** 610-901-3046

**PRODUCT USE:** Laboratory Reagent  
**PREPARED BY:** CB

**SECTION 1 NOTES:**

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:** Flammable Liquid Category 2, Serious eye damage/Eye irritation Category 2B, Skin Irritation Category 2, Specific Target Organ toxicity – single exposure Category 3



Signal word: Danger!

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes eye irritation.
H335 + H336	May cause respiratory irritation, and drowsiness, or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SECTION 2 NOTES:**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% V</u>
Ethanol	64-17-5	~66.5
Methanol	67-56-1	~3.5
Hydrochloric Acid	7647-01-0	0.5

**SECTION 3 NOTES:**

**SECTION 4: FIRST AID MEASURES**

- EYES:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- SKIN:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- INGESTION:** Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- INHALATION:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**SECTION 4 NOTES:**

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FLAMMABILITY OF THE PRODUCT:** Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst with the risk of a subsequent explosion. Run-off to sewer may create fire or explosion hazard.

**FLASH POINT:** closed cup: 11.667°C (53°F)

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0  
OTHER:

**HMIS HAZARD CLASSIFICATION**

HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0  
PROTECTION:

**EXTINGUISHING MEDIA:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam

**NOT SUITABLE:** Do not use water jet.

**SPECIAL FIRE FIGHTING PROCEDURES:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SPECIAL EXPOSURE HAZARDS:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**HAZARDOUS DECOMPOSITION PRODUCTS:** carbon monoxide, carbon dioxide

**SPECIAL REMARKS ON EXPLOSION HAZARDS:**

Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:**

**Small spill and leak:** Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large spill and leak:**

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**SECTION 6 NOTES:**

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:**

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.

**STORAGE:**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**SECTION 7 NOTES:**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**RESPIRATORY PROTECTION:**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**EYE PROTECTION:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles

**SKIN PROTECTION:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: neoprene

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab Coat

**WORK HYGIENIC PRACTICES:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**EXPOSURE GUIDELINES:** Consult local authorities for acceptable exposure limits

Ingredient	Exposure limits
Methanol	<p><b>ACGIH TLV (United States, 3/2012).</b>            TWA: 200 ppm 8 hour(s).            TWA: 262 mg/m<sup>3</sup> 8 hour(s).            STEL: 250 ppm 15 minute(s).            STEL: 328 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 200 ppm 8 hour(s).            TWA: 260 mg/m<sup>3</sup> 8 hour(s).            STEL: 250 ppm 15 minute(s).            STEL: 325 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>NIOSH REL (United States, 1/2013).</b>            TWA: 200 ppm 10 hour(s).            TWA: 260 mg/m<sup>3</sup> 10 hour(s).            STEL: 250 ppm 15 minute(s).            STEL: 325 mg/m<sup>3</sup> 15 minute(s).</p> <p><b>OSHA PEL (United States, 6/2010).</b>            TWA: 200 ppm 8 hour(s).            TWA: 260 mg/m<sup>3</sup> 8 hour(s).</p>
Ethanol	<p><b>ACGIH TLV (United States, 3/2012).</b>            STEL: 1000 ppm 15 minute(s).</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 1900 mg/m<sup>3</sup> 8 hour(s).            TWA: 1000 ppm 8 hour(s).</p> <p><b>NIOSH REL (United States, 1/2013).</b>            TWA: 1000 ppm 10 hour(s).            TWA: 1900 mg/m<sup>3</sup> 10 hour(s).</p> <p><b>OSHA PEL (United States, 6/2010).</b>            TWA: 1000 ppm 8 hour(s).            TWA: 1900 mg/m<sup>3</sup> 8 hour(s).</p>
Hydrochloric Acid	<p><b>ACGIGH</b> 7ppm CEIL  <b>OSHA</b> 5ppm  <b>NIOSH</b> 5ppm, STEL 7 ppm</p>

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Clear, colorless

**ODOR:** Characteristic

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** N/A

**BOILING POINT:** 79°C

**MELTING POINT:** N/A

**FREEZING POINT:** Not Available

**VAPOR PRESSURE (mmHg):** Not available

**VAPOR DENSITY (AIR = 1):** Not Available

**EVAPORATION RATE:** Not Available

**SOLUBILITY IN WATER:** Soluble in water

**MOLECULAR WEIGHT:** Mixture

**VISCOSITY:** Not established

**SECTION 9 NOTES:**

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Product is stable under normal conditions of use.

**CONDITIONS TO AVOID (STABILITY):** Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Highly reactive or incompatible with the following materials with oxidizing materials, acids.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Acute toxicity**

**Oral LD50**

no data available

**Inhalation LC50**

no data available

**Dermal LD50**

no data available

**Other information on acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

Eyes: no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

**ROUTES OF ENTRY:** Skin/eye contact, inhalation, and ingestion.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Causes eye irritation

**SKIN:** Toxic if absorbed through skin. Causes skin irritation.

**INGESTION:** Toxic if swallowed.

**INHALATION:** Toxic if inhaled. Causes respiratory tract irritation.

**ACUTE HEALTH HAZARDS:** See above, potential health effects.

**TARGET ORGANS:** Nerves., Liver, Heart, Kidney

**SECTION 11 NOTES:**

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Toxicity**

no data available

**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**

no data available

**SECTION 12 NOTES:**

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

**SECTION 13 NOTES:**

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:** Flammable liquids, n.o.s. (Ethanol/Methanol)

**HAZARD CLASS:** 3

**ID NUMBER:** UN1993

**PACKING GROUP:** II

**LABEL STATEMENT:**

**ENVIRONMENTAL HAZARDS:** No

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** Flammable liquids, n.o.s. (Ethanol/Methanol)

**HAZARD CLASS:** 3

**ID NUMBER:** UN1993

**PACKING GROUP: II**  
**LABEL STATEMENTS:**

**OTHER AGENCIES:**

**IMDG:** UN Number: 1993 Class: 3 Packing group: II EMS-No: F-E, S-E

**Canadian TDG:** UN No. 1993 Class 3 (6.1) Packing group II  
Proper shipping name Flammable liquid

**EU ADR/RID:** Not regulated / **Environmental Hazards:** No

**IATA/ICAO:** Not regulated / **Environmental Hazards:** No

**SECTION 14 NOTES:**

**SECTION 15: REGULATORY INFORMATION**

**United States**

**HCS Classification:** Flammable liquid, Toxic material, Irritating material, Target organ effects

**U.S. Federal regulations:**

**United States inventory (TSCA 8b):** TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

**TSCA 8(a) IUR:** Partial Exemption

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** Ethyl Alcohol, Methanol

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

Ethyl Alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Methanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

**SARA 313**

Form R Reporting requirements:	Product name	CAS number	Concentration
Requirements:	Methanol	67-56-1	99-100
Supplier Notification:	Methanol	67-56-1	99-100

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

**DEA List I Chemicals (Precursor Chemicals):**

Not listed

**DEA List II Chemicals (Essential Chemicals):**

Listed

**Connecticut Carcinogen Reporting:**

None of the components are listed.

**Connecticut Hazardous Material Survey:**

None of the components are listed.

**Florida substances:**

None of the components are listed.

**Illinois Chemical Safety Act:**

None of the components are listed.

**Illinois Toxic Substances**

**Disclosure to Employee Act:**

None of the components are listed.

**Louisiana Spill:**

None of the components are listed.

**Louisiana Reporting:**

None of the components are listed.

**Massachusetts Spill:**

None of the components are listed.

**Massachusetts Substances:**

The following components are listed: Ethyl Alcohol; Methanol

**Minnesota Hazardous Substances:**

None of the components are listed.

**Michigan Critical Material:**

None of the components are listed.

**New Jersey Toxic Catastrophe Prevention Act:**

None of the components are listed.

**New Jersey Spill:**

None of the components are listed.

**New Jersey Hazardous Substances:**

The following components are listed: Ethyl Alcohol; Methanol

**New York Toxic Chemical Release Reporting:**

None of the components are listed.

**New York Acutely Hazardous Substances:**

None of the components are listed

**Pennsylvania RTK Hazardous Substances:**

The following components are listed: Ethyl Alcohol; Methanol

**Rhode Island Hazardous Substances:**

None of the components are listed.

**California Prop. 65**

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

**Ingredient name**  
**Acceptable dosage**  
Methanol

<b><u>Cancer</u></b>	<b><u>Reproductive</u></b>	<b><u>No significant risk level</u></b>	<b><u>Maximum acceptable dosage level</u></b>
No.	Yes.	No.	No.

**CANADA**  
**WHMIS (Canada):**

Class B-2: Flammable liquid  
Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists:**

**CEPA Toxic substances:** The following components are listed: Volatile organic compounds  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** The following components are listed: Ethanol; Methanol; Volatile organic compounds  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**CEPA DSL / CEPA NDSL:**

All components are listed or exempted.

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**International regulations**

**International lists:**

**Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** All components are listed or exempted.  
**Korea inventory:** All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.

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## SECTION 16: OTHER INFORMATION

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**National Fire Protection Association (U.S.A.)**



**DISCLAIMER:** This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Azer Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.

**PREPARATION INFORMATION: Prepared 3/23/2015 REV1**