

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Acid Alcohol Solution 0.5%  
**SYNONYMS:** None  
**PRODUCT CODES:** Component of AFB Stain Kit ES3405

**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 NOTE:**

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:** Flammable Liquid Category 2, Serious eye damage/Eye irritation Category 2A, Skin Irritation Category 2, Acute Toxicity Oral Category 5



Signal word: **Danger!**

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H303	May be harmful if swallowed.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P302+P351	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P315	If eye irritation persists, get immediate medical attention.
P301+P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**SECTION 2 NOTES:**

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

Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*\*May contain additional active ingredients at concentrations <1% w/v

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% V</b>
Ethanol	64-17-5	≤65
Isopropyl Alcohol	67-63-0	≤4
Hydrochloric Acid	7647-01-0	0.5

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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- 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 if irritation develops.
- 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.
- 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 if symptoms worsen

**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:** Not Available

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0**  
**OTHER:**

**HMS HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0**  
**PROTECTION: H**

**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. Store at 15-30°C

**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
Ethanol	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 1000 ppm 15 minute(s). <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). <b>NIOSH REL (United States, 1/2013).</b> TWA: 1000 ppm 10 hour(s). TWA: 1900 mg/m <sup>3</sup> 10 hour(s). <b>OSHA PEL (United States, 6/2010).</b> TWA: 1000 ppm 8 hour(s). TWA: 1900 mg/m <sup>3</sup> 8 hour(s).
Hydrochloric Acid	<b>ACGIH</b> 7ppm CEIL <b>OSHA</b> 5ppm <b>NIOSH</b> 5ppm, STEL 7 ppm
Isopropyl Alcohol	<b>NIOSH REL</b> TWA 400 ppm (980 mg/m <sup>3</sup> ) ST 500 ppm (1225 mg/m <sup>3</sup> ) <b>OSHA PEL</b> TWA 400 ppm (980 mg/m <sup>3</sup> ) <b>ACGIH TLV</b> TWA 200 ppm STEL 400 ppm

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Clear, colorless  
**ODOR:** Mild alcohol odor  
**PHYSICAL STATE:** liquid  
**pH AS SUPPLIED:** N/A  
**BOILING POINT:** Not available  
**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:** Hydrogen chloride, oxides of carbon

**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**

Irritating to skin and mucous membranes

**Serious eye damage/eye irritation**

Seriously irritating to the eyes.

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

**International Agency for Research on Cancer (IARC).**

Hydrochloric Acid is listed as Group 3 – Not classifiable as to carcinogenicity in humans

**National Toxicology Program (NTP).**

None of the components are listed.

**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:** Causes skin irritation.

**INGESTION:** Toxic if swallowed.

**INHALATION:** 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**

**Fish:** No relevant studies identified.

**Crustacea:** No relevant studies identified.

**Algae/Aquatic Plants:** No relevant studies identified.

**Other Organisms:** No relevant studies identified.

**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:** Ethanol solutions**HAZARD CLASS:** 3**ID NUMBER:** UN1170**PACKING GROUP:** II**LABEL STATEMENT:****ENVIRONMENTAL HAZARDS:** No**AIR TRANSPORTATION (IATA)****PROPER SHIPPING NAME:** Ethanol solutions**HAZARD CLASS:** 3**ID NUMBER:** UN1170**PACKING GROUP:** II**LABEL STATEMENTS:****OTHER AGENCIES:****IMDG:** UN Number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-E**Canadian TDG:** UN No. 1170 Class 3 (6.1) Packing group II  
Proper shipping name: Ethanol solutions**EU ADR/RID:** UN Number: 1170 Class: 3 Packing group: II**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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

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

**SARA 313:** No products were found.

**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

**RTK STATES:** Ethanol CAS# 64-17-5: PA, NJ, MA, RI Isopropyl Alcohol CAS# 67-63-0 MA, PA, NJ Hydrochloric Acid CAS# 7647-01-0 MA, PA, NJ

**California Prop. 65**

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

**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  
Volatile organic compounds

**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.

**SECTION 16: OTHER INFORMATION**

**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 7/21/2015 REV1



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Carbol Fuchsin Solution

**SYNONYMS:** None

**PRODUCT CODES:** Component of Acid Fast Stain Kit ES3405, Fite's Stain Kit ES4808

**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, Biological Stain

**PREPARED BY:** CB

### SECTION 1 NOTES:

## SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1B; Skin Irritation category 2; Specific Target Organ Toxicity-repeated exposure Category 2



Signal Word: **Warning!**

Hazard Phrases	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
P373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases	
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist, spray, vapors.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse

### SECTION 2 NOTES:

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

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Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*\*May contain additional active ingredients at concentrations &lt;1% w/v

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Basic Fuchsin	632-99-5	≤0.5
Phenol	108-95-2	≤5
Ethanol	64.17-5	≤10

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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**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:****FLASH POINT:** 100°C (Ethanol)**AUTOIGNITION TEMPERATURE:** Not available**NFPA HAZARD CLASSIFICATION****HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0**  
**OTHER:****HMIS HAZARD CLASSIFICATION****HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0**  
**PROTECTION:H****EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide**NOT SUITABLE:** Do not use direct water stream.**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. Keep unopened containers cool by spraying with water.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon expected to be the primary combustion products.

**SECTION 5 NOTES:**

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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.

**SECTION 6 NOTES:**

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** Do not get in eyes, 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 a well ventilated place. Keep container tightly closed. Store locked up.

**SECTION 7 NOTES:**

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

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**ENGINEERING CONTROLS:** General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

**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:** 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

**HANDS:** 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

**ENVIRONMENTAL EXPOSURE CONTROLS:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**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:**

Component	Source	Type	Value	Note
Ethanol	ACGIH TLV	STEL	1000 ppm	
	OSHA PEL	TWA	1000 ppm / 1900 mg/m <sup>3</sup>	
Phenol	OSHA PEL	TWA	5 ppm / 19 mg/m <sup>3</sup>	
	ACGIH TLV	TWA	5 ppm	

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Opaque red  
**ODOR:** Sweet and tarry (characteristic Phenol)  
**PHYSICAL STATE:** liquid  
**pH AS SUPPLIED:** Not available  
**BOILING POINT:** Not available  
**MELTING POINT:** Not available  
**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**

**STABILITY:** Product is stable under normal conditions of use.  
**CONDITIONS TO AVOID (STABILITY):** Excessive heat  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Combustion will release toxic and corrosive phenol vapor.  
**HAZARDOUS POLYMERIZATION:** No hazardous polymerization  
**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**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

**Carcinogenicity**

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
Phenol	108-95-2	Not listed	Not listed	Not listed
Basic Fuchsin	632-99-5	Listed	Not listed	Listed

**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

**Potential health effects**

**Inhalation** Toxic if inhaled. Causes respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** Toxic if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**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.

**ACUTE HEALTH HAZARDS:** Phenol is absorbed through intact skin and is highly toxic by ingestion, inhalation or contact. Gastrointestinal effects include: nausea, pain, bloody vomit and diarrhea.

**TARGET ORGANS:** Liver, Kidneys, Nerves, Central nervous system, Skin, Eyes, Cardiovascular system, Pancreas, Spleen.

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY:** No relevant studies identified.

**PERSISTANCE AND DEGRADABILITY:** Biodegradation is expected to be a major fate process for this material.

**BIOACCUMULATIVE POTENTIAL:** Not expected to bio accumulate.

**MOBILITY IN SOIL:** This material is expected to have very high mobility in soil.

**PBT and vPvB ASSESSMENT:** Not required.

**SECTION 12 NOTES:**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**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.

**RCRA HAZARD CLASS:**

**SECTION 13 NOTES:**

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION: NOT REGULATED****PROPER SHIPPING NAME:****HAZARD CLASS:****ID NUMBER:****PACKING GROUP:****LABEL STATEMENT:****ENVIRONMENTAL HAZARDS:****AIR TRANSPORTATION: NOT REGULATED****PROPER SHIPPING NAME:****HAZARD CLASS:****ID NUMBER:****PACKING GROUP:****LABEL STATEMENTS:****OTHER AGENCIES:****Canadian TDG:** Not regulated / **Environmental Hazards:** No**EU ADR/RID:** Not regulated / **Environmental Hazards:** No**IATA/ICAO:** Not regulated / **Environmental Hazards:** No**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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**United States**

**HCS Classification:** Flammable liquid  
Toxic material  
Irritating material  
Carcinogen  
Mutagen

**U.S. Federal regulations:****TSCA (Toxic Substance Control Act):** All components are listed on the TSCA Inventory.**SARA 302/304/311/312 extremely hazardous substances:** Phenol CAS#108-95-2**SARA 302/304 emergency planning and notification:** Phenol CAS#108-95-2**SARA 302/304/311/312 hazardous chemicals:** Fuchsin, Basic CAS#632-99-5; Phenol CAS#108-95-2**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

Fuchsin Basic: Delayed (chronic) health hazard; Phenol: Fire hazard, Immediate (acute) health hazard,

Delayed (chronic) health hazard; SDA-3A: Fire hazard, Immediate (acute) health hazard,

Delayed (chronic) health hazard

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):****DEA List I & II Chemicals****(Precursor Chemicals):** Not listed**RTK STATES:** Phenol CAS#108-95-2, Fuchsin Basic CAS#632-99-5; Ethanol CAS# 64-17-5: PA, NJ, MA, RI**California Prop. 65****WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None**CANADA****WHMIS (Canada):** B3 Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
D2A Material causing other toxic effects (Very toxic).  
E Corrosive material

D1A Material causing immediate and serious toxic effects (Very toxic).

**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 7/14/2015 REV1**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**PRODUCT NAME:** Light Green Solution

**SYNONYMS:** None

**PRODUCT CODES:** Component of AFB Stain Kit ES3405, PAS for Fungus ES4815, GMS Stain Kit ES3397

**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:** Skin Irritation Category 2; Eye Irritation Category 2B



Signal Word: Warning!

Hazard Phrases	
H320	Causes eye irritation.
H315	Causes skin irritation.

Precautionary Phrases	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P337+P315	If eye irritation persists: Get medical advice/attention.

**SECTION 2 NOTES:**

---

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

---

Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*\*May contain additional active ingredients at concentrations <1% w/v

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Acetic Acid	64-19-7	≤0.05
Light Green	5141-20-8	≤0.5

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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- 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 if irritation persists.
- 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 if irritation develops.
- 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 if symptoms worsen.

**SECTION 4 NOTES:**

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**SECTION 5: FIRE-FIGHTING MEASURES**

---

**FLAMMABILITY OF THE PRODUCT:**

**FLASH POINT:** Not Available

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0**  
**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0**  
**PROTECTION: B**

**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.

**SECTION 5 NOTES:**

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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. Do not allow product to enter drains.

**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:**

---

**SECTION 7: HANDLING AND STORAGE**

---

**HANDLING:** Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor.

**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in a well ventilated area. Store at 15-30°C

**SECTION 7 NOTES:**

---

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

---

**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:** 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.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** 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:**

Component	Source	Type	Value	Note
Acetic Acid	OSHA PEL	TWA	10 ppm (25 mg/m <sup>3</sup> )	
	NIOSH REL	TWA	10 ppm (25 mg/m <sup>3</sup> )	
	NIOSH REL	STEL	15 ppm (37 mg/m <sup>3</sup> )	
	ACGIH TLV	TWA	10 ppm	
	ACGIH TLV	STEL	15 ppm (37 mg/m <sup>3</sup> )	

**SECTION 8 NOTES:** Avoid releasing large quantities into the environment.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

---

**APPEARANCE:** Green/blue  
**ODOR:** Odorless  
**PHYSICAL STATE:** Liquid.  
**pH AS SUPPLIED:** Moderately acidic  
**BOILING POINT:** Not Available  
**MELTING POINT:** Not Available  
**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):** Excessive heat  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids, strong oxidizers  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known  
**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**

May be irritating to skin and mucous membranes.

**Serious eye damage/eye irritation**

May be irritating to the eye.

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity:**

no data available

**Carcinogenicity:****International Agency for Research on Cancer (IARC).**

None of the components are listed.

**National Toxicology Program (NTP).**

None of the components are listed.

**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

**Potential health effects****Inhalation** May cause respiratory tract irritation.**Ingestion** Toxic if swallowed.**Skin** Causes skin irritation.**Eyes** Causes eye irritation.**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.**ACUTE HEALTH HAZARDS:** See above, potential health effects.**SECTION 11 NOTES:**

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**SECTION 12: ECOLOGICAL INFORMATION**

---

**Toxicity:****Fish:** No relevant studies identified.**Crustacea:** No relevant studies identified.**Algae/Aquatic Plants:** No relevant studies identified.**Other Organisms:** No relevant studies identified.**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**

---

**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:**

---

**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION:** Not Regulated

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**AIR TRANSPORTATION (IATA):** Not Regulated

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENTS:**

**IMDG:** Not Regulated

**EU ADR/RID:** Not Regulated

**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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**United States**

**U.S. Federal regulations:**

**United States inventory (TSCA 8b):**

**TSCA 8(d) H and S data reporting:**

TSCA (Toxic Substance Control Act): All components are listed on the TSCA Inventory.

**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:**

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

**SARA 313:** No products were found.

**Clean Water Act (CWA) 307**

**Clean Water Act (CWA) 311**

**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 & II Chemicals**

**(Precursor Chemicals):**

Not listed

**States RTK:** Acetic Acid CAS# 64-19-7 PA, MA, NJ, RI

**California Prop. 65**

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm: None

**CANADA**

**WHMIS (Canada):**

Class D-2 Material causing other toxic effects.

**Canadian lists:**

**CEPA Toxic substances:** None of the components are listed.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** The following 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):** Not determined.

**Japan inventory:** All components are listed or exempted.

**Korea inventory:** All components are listed or exempted.

**New Zealand Inventory of Chemicals (NZIoC):** Not determined.

**Philippines inventory (PICCS):** All components are listed or exempted.

---

## SECTION 16: OTHER INFORMATION

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



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**PREPARATION INFORMATION: Prepared 7/21/2015 REV1**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**PRODUCT NAME:** Light Green Solution

**SYNONYMS:** None

**PRODUCT CODES:** Component of AFB Stain Kit ES3405, PAS for Fungus ES4815, GMS Stain Kit ES3397

**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:** Skin Irritation Category 2; Eye Irritation Category 2B



Signal Word: Warning!

Hazard Phrases	
H320	Causes eye irritation.
H315	Causes skin irritation.

Precautionary Phrases	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P337+P315	If eye irritation persists: Get medical advice/attention.

**SECTION 2 NOTES:**

---

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

---

Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*\*May contain additional active ingredients at concentrations <1% w/v

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Acetic Acid	64-19-7	≤0.05
Light Green	5141-20-8	≤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 if irritation persists.
- 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 if irritation develops.
- 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 if symptoms worsen.

**SECTION 4 NOTES:**

---

**SECTION 5: FIRE-FIGHTING MEASURES**

---

**FLAMMABILITY OF THE PRODUCT:**

**FLASH POINT:** Not Available

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0**  
**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0**  
**PROTECTION: B**

**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.

**SECTION 5 NOTES:**

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

**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. Do not allow product to enter drains.

**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:**

---

**SECTION 7: HANDLING AND STORAGE**

---

**HANDLING:** Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor.

**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in a well ventilated area. Store at 15-30°C

**SECTION 7 NOTES:**

---

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

---

**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:** 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.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** 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:

Component	Source	Type	Value	Note
Acetic Acid	OSHA PEL	TWA	10 ppm (25 mg/m <sup>3</sup> )	
	NIOSH REL	TWA	10 ppm (25 mg/m <sup>3</sup> )	
	NIOSH REL	STEL	15 ppm (37 mg/m <sup>3</sup> )	
	ACGIH TLV	TWA	10 ppm	
	ACGIH TLV	STEL	15 ppm (37 mg/m <sup>3</sup> )	

**SECTION 8 NOTES:** Avoid releasing large quantities into the environment.

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

**APPEARANCE:** Green/blue

**ODOR:** Odorless

**PHYSICAL STATE:** Liquid.

**pH AS SUPPLIED:** Moderately acidic

**BOILING POINT:** Not Available

**MELTING POINT:** Not Available

**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:**

---

## SECTION 10: STABILITY AND REACTIVITY

---

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

**CONDITIONS TO AVOID (STABILITY):** Excessive heat

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids, strong oxidizers

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known

**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**

May be irritating to skin and mucous membranes.

**Serious eye damage/eye irritation**

May be irritating to the eye.

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity:**

no data available

**Carcinogenicity:****International Agency for Research on Cancer (IARC).**

None of the components are listed.

**National Toxicology Program (NTP).**

None of the components are listed.

**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

**Potential health effects****Inhalation** May cause respiratory tract irritation.**Ingestion** Toxic if swallowed.**Skin** Causes skin irritation.**Eyes** Causes eye irritation.**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.**ACUTE HEALTH HAZARDS:** See above, potential health effects.**SECTION 11 NOTES:**

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

**Toxicity:****Fish:** No relevant studies identified.**Crustacea:** No relevant studies identified.**Algae/Aquatic Plants:** No relevant studies identified.**Other Organisms:** No relevant studies identified.**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:**

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**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:**

---

**SECTION 14: TRANSPORT INFORMATION**

---

**U.S. DEPARTMENT OF TRANSPORTATION:** Not Regulated

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**AIR TRANSPORTATION (IATA):** Not Regulated

**PROPER SHIPPING NAME:**

**HAZARD CLASS:**

**ID NUMBER:**

**PACKING GROUP:**

**LABEL STATEMENTS:**

**IMDG:** Not Regulated

**EU ADR/RID:** Not Regulated

**SECTION 14 NOTES:**

---

**SECTION 15: REGULATORY INFORMATION**

---

**United States**

**U.S. Federal regulations:**

**United States inventory (TSCA 8b):**

**TSCA 8(d) H and S data reporting:**

TSCA (Toxic Substance Control Act): All components are listed on the TSCA Inventory.

**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:**

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

**SARA 313:** No products were found.

**Clean Water Act (CWA) 307**

**Clean Water Act (CWA) 311**

**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 & II Chemicals**

**(Precursor Chemicals):**

Not listed

**States RTK:** Acetic Acid CAS# 64-19-7 PA, MA, NJ, RI

**California Prop. 65**

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm: None

**CANADA**

**WHMIS (Canada):**

Class D-2 Material causing other toxic effects.

**Canadian lists:**

**CEPA Toxic substances:** None of the components are listed.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** The following 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):** Not determined.

**Japan inventory:** All components are listed or exempted.

**Korea inventory:** All components are listed or exempted.

**New Zealand Inventory of Chemicals (NZIoC):** Not determined.

**Philippines inventory (PICCS):** All components are listed or exempted.

---

## SECTION 16: OTHER INFORMATION

---

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



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**PREPARATION INFORMATION: Prepared 7/21/2015 REV1**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Carbol Fuchsin Solution  
**SYNONYMS:** None  
**PRODUCT CODES:** Component of Acid Fast Stain Kit ES3405, Fite's Stain Kit ES4808

**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, Biological Stain  
**PREPARED BY:** CB

**SECTION 1 NOTES:**

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:** Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1B; Skin Irritation category 2; Specific Target Organ Toxicity-repeated exposure Category 2



Signal Word: **Warning!**

Hazard Phrases	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
P373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases	
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist, spray, vapors.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse

**SECTION 2 NOTES:**

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

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Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*\*May contain additional active ingredients at concentrations <1% w/v

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Basic Fuchsin	632-99-5	≤0.5
Phenol	108-95-2	≤5
Ethanol	64.17-5	≤10

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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**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:**

**FLASH POINT:** 100°C (Ethanol)

**AUTOIGNITION TEMPERATURE:** Not available

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0**  
**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0**  
**PROTECTION:H**

**EXTINGUISHING MEDIA:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**NOT SUITABLE:** Do not use direct water stream.

**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. Keep unopened containers cool by spraying with water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon expected to be the primary combustion products.

**SECTION 5 NOTES:**

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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.

**SECTION 6 NOTES:**

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** Do not get in eyes, 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 a well ventilated place. Keep container tightly closed. Store locked up.

**SECTION 7 NOTES:**

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

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**ENGINEERING CONTROLS:** General mechanical ventilation or laboratory fume hood. Ensure that eyewash stations and quick drench showers are close to the workstation.

**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:** 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

**HANDS:** 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

**ENVIRONMENTAL EXPOSURE CONTROLS:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**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:**

Component	Source	Type	Value	Note
Ethanol	ACGIH TLV	STEL	1000 ppm	
	OSHA PEL	TWA	1000 ppm / 1900 mg/m <sup>3</sup>	
Phenol	OSHA PEL	TWA	5 ppm / 19 mg/m <sup>3</sup>	
	ACGIH TLV	TWA	5 ppm	

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Opaque red  
**ODOR:** Sweet and tarry (characteristic Phenol)  
**PHYSICAL STATE:** liquid  
**pH AS SUPPLIED:** Not available  
**BOILING POINT:** Not available  
**MELTING POINT:** Not available  
**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**

**STABILITY:** Product is stable under normal conditions of use.  
**CONDITIONS TO AVOID (STABILITY):** Excessive heat  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Combustion will release toxic and corrosive phenol vapor.  
**HAZARDOUS POLYMERIZATION:** No hazardous polymerization  
**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**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

**Carcinogenicity**

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
Phenol	108-95-2	Not listed	Not listed	Not listed
Basic Fuchsin	632-99-5	Listed	Not listed	Listed

**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

**Potential health effects**

**Inhalation** Toxic if inhaled. Causes respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** Toxic if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**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.

**ACUTE HEALTH HAZARDS:** Phenol is absorbed through intact skin and is highly toxic by ingestion, inhalation or contact. Gastrointestinal effects include: nausea, pain, bloody vomit and diarrhea.

**TARGET ORGANS:** Liver, Kidneys, Nerves, Central nervous system, Skin, Eyes, Cardiovascular system, Pancreas, Spleen.

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY:** No relevant studies identified.

**PERSISTANCE AND DEGRADABILITY:** Biodegradation is expected to be a major fate process for this material.

**BIOACCUMULATIVE POTENTIAL:** Not expected to bio accumulate.

**MOBILITY IN SOIL:** This material is expected to have very high mobility in soil.

**PBT and vPvB ASSESSMENT:** Not required.

**SECTION 12 NOTES:**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**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.

**RCRA HAZARD CLASS:**

**SECTION 13 NOTES:**

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION: NOT REGULATED****PROPER SHIPPING NAME:****HAZARD CLASS:****ID NUMBER:****PACKING GROUP:****LABEL STATEMENT:****ENVIRONMENTAL HAZARDS:****AIR TRANSPORTATION: NOT REGULATED****PROPER SHIPPING NAME:****HAZARD CLASS:****ID NUMBER:****PACKING GROUP:****LABEL STATEMENTS:****OTHER AGENCIES:****Canadian TDG:** Not regulated / **Environmental Hazards:** No**EU ADR/RID:** Not regulated / **Environmental Hazards:** No**IATA/ICAO:** Not regulated / **Environmental Hazards:** No**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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**United States****HCS Classification:** Flammable liquid  
Toxic material  
Irritating material  
Carcinogen  
Mutagen**U.S. Federal regulations:****TSCA (Toxic Substance Control Act):** All components are listed on the TSCA Inventory.**SARA 302/304/311/312 extremely hazardous substances:** Phenol CAS#108-95-2**SARA 302/304 emergency planning and notification:** Phenol CAS#108-95-2**SARA 302/304/311/312 hazardous chemicals:** Fuchsin, Basic CAS#632-99-5; Phenol CAS#108-95-2**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

Fuchsin Basic: Delayed (chronic) health hazard; Phenol: Fire hazard, Immediate (acute) health hazard,

Delayed (chronic) health hazard; SDA-3A: Fire hazard, Immediate (acute) health hazard,

Delayed (chronic) health hazard

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):****DEA List I & II Chemicals****(Precursor Chemicals):** Not listed**RTK STATES:** Phenol CAS#108-95-2, Fuchsin Basic CAS#632-99-5; Ethanol CAS# 64-17-5: PA, NJ, MA, RI**California Prop. 65****WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None**CANADA****WHMIS (Canada):** B3 Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
D2A Material causing other toxic effects (Very toxic).  
E Corrosive material

D1A Material causing immediate and serious toxic effects (Very toxic).

**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 7/14/2015 REV1**

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Acid Alcohol Solution 0.5%  
**SYNONYMS:** None  
**PRODUCT CODES:** Component of AFB Stain Kit ES3405

**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 NOTE:**

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION:** Flammable Liquid Category 2, Serious eye damage/Eye irritation Category 2A, Skin Irritation Category 2, Acute Toxicity Oral Category 5



Signal word: **Danger!**

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H303	May be harmful if swallowed.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P302+P351	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P315	If eye irritation persists, get immediate medical attention.
P301+P312	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**SECTION 2 NOTES:**

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

Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*\*May contain additional active ingredients at concentrations <1% w/v

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% V</u>
Ethanol	64-17-5	≤65
Isopropyl Alcohol	67-63-0	≤4
Hydrochloric Acid	7647-01-0	0.5

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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- 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 if irritation develops.
- 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.
- 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 if symptoms worsen

**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:** Not Available

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0**  
**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0**  
**PROTECTION: H**

**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. Store at 15-30°C

**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
Ethanol	<b>ACGIH TLV (United States, 3/2012).</b> STEL: 1000 ppm 15 minute(s). <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). <b>NIOSH REL (United States, 1/2013).</b> TWA: 1000 ppm 10 hour(s). TWA: 1900 mg/m <sup>3</sup> 10 hour(s). <b>OSHA PEL (United States, 6/2010).</b> TWA: 1000 ppm 8 hour(s). TWA: 1900 mg/m <sup>3</sup> 8 hour(s).
Hydrochloric Acid	<b>ACGIH</b> 7ppm CEIL <b>OSHA</b> 5ppm <b>NIOSH</b> 5ppm, STEL 7 ppm
Isopropyl Alcohol	<b>NIOSH REL</b> TWA 400 ppm (980 mg/m <sup>3</sup> ) ST 500 ppm (1225 mg/m <sup>3</sup> ) <b>OSHA PEL</b> TWA 400 ppm (980 mg/m <sup>3</sup> ) <b>ACGIH TLV</b> TWA 200 ppm STEL 400 ppm

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Clear, colorless  
**ODOR:** Mild alcohol odor  
**PHYSICAL STATE:** liquid  
**pH AS SUPPLIED:** N/A  
**BOILING POINT:** Not available  
**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:** Hydrogen chloride, oxides of carbon

**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**

Irritating to skin and mucous membranes

**Serious eye damage/eye irritation**

Seriously irritating to the eyes.

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

**International Agency for Research on Cancer (IARC).**

Hydrochloric Acid is listed as Group 3 – Not classifiable as to carcinogenicity in humans

**National Toxicology Program (NTP).**

None of the components are listed.

**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:** Causes skin irritation.

**INGESTION:** Toxic if swallowed.

**INHALATION:** 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**

**Fish:** No relevant studies identified.

**Crustacea:** No relevant studies identified.

**Algae/Aquatic Plants:** No relevant studies identified.

**Other Organisms:** No relevant studies identified.

**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:** Ethanol solutions**HAZARD CLASS:** 3**ID NUMBER:** UN1170**PACKING GROUP:** II**LABEL STATEMENT:****ENVIRONMENTAL HAZARDS:** No**AIR TRANSPORTATION (IATA)****PROPER SHIPPING NAME:** Ethanol solutions**HAZARD CLASS:** 3**ID NUMBER:** UN1170**PACKING GROUP:** II**LABEL STATEMENTS:****OTHER AGENCIES:****IMDG:** UN Number: 1170 Class: 3 Packing group: II EMS-No: F-E, S-E**Canadian TDG:** UN No. 1170 Class 3 (6.1) Packing group II  
Proper shipping name: Ethanol solutions**EU ADR/RID:** UN Number: 1170 Class: 3 Packing group: II**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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

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

**SARA 313:** No products were found.

**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

**RTK STATES:** Ethanol CAS# 64-17-5: PA, NJ, MA, RI Isopropyl Alcohol CAS# 67-63-0 MA, PA, NJ Hydrochloric Acid CAS# 7647-01-0 MA, PA, NJ

**California Prop. 65**

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: None

**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  
Volatile organic compounds

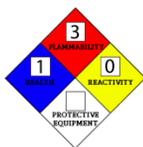
**CEPA DSL / CEPA NDSL:** All components are listed or exempted.  
*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**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.

**SECTION 16: OTHER INFORMATION**

**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 7/21/2015 REV1

