

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Bluing Reagent-Alcoholic

**SYNONYMS:** None

**PRODUCT CODES:** ES744, ES745

**MANUFACTURER:** Azer Scientific, Inc.

**ADDRESS:** 701 Hemlock Rd, Morgantown, PA 19543

**CHEMTREC PHONE:** 800-424-9300

**SUPPORT:** 610-524-5810

**FAX:** 610-901-3046

**PRODUCT USE:** Laboratory reagent

**PREPARED BY:** CB

### SECTION 1 NOTES:

## SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:** Flammable liquid Category 2; Acute toxicity, oral Category 4; Acute toxicity, dermal Category 4; Acute toxicity, inhalation Category 4, Specific organ toxicity - single exposure Category 2



**Signal Word:** Danger!

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H302+H312	Harmful if swallowed or in contact with skin.
H371	May cause damage to organs.
H332	Harmful if inhaled.

Precautionary Phrases	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/ eye protection/ face protection.
P264	Wash hands thoroughly after handling.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/ physician.

**SECTION 2 NOTES:**

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

<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>
Methanol	67-56-1	50
Lithium Carbonate	554-13-2	<1
Sodium Bicarbonate	144-55-8	<1
Water	7732-18-5	<50

**SECTION 3 NOTES:**

**SECTION 4: FIRST AID MEASURES**

**EYES:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**SKIN:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation persists.

**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 occur.

**SECTION 4 NOTES:**

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABILITY OF THE PRODUCT:** Flammable liquid

**FLASH POINT:** 54°F TCC (Methanol)

**AUTOIGNITION TEMPERATURE:** Not Available

**NFPA HAZARD CLASSIFICATION**

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

**HMIS HAZARD CLASSIFICATION**

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

**EXTINGUISHING MEDIA:** Small fire - use DRY chemical powder, CO<sub>2</sub>, water spray or alcohol resistant foam. Large fire - use alcohol resistant foam, water spray or fog. Cool all affected containers with flooding quantities of water.

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

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing to protect contact with skin and eyes. Keep unopened containers cool by spraying with water. Alcohols burn with a pale blue flame which may be difficult to see under normal lighting conditions. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May produce a floating fire hazard. Vapors may travel to source of ignition and

flash back. Vapors may settle on low or confined spaces.

**SECTION 5 NOTES:** Static ignition hazard can result from handling and use. Keep away from sparking tools.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### ACCIDENTAL RELEASE MEASURES:

**Small spill and leak:** Stop spill at the source if it is safe to do so. Neutralize spill with soda ash, or acid neutralizer. Absorb with an inert material. Collect into a suitable container for disposal.

**Large spill and leak:** Stop leak if without risk. Move containers from spill area. 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). Contaminated absorbent material may pose the same hazard as the spilled product.

### SECTION 6 NOTES:

## SECTION 7: HANDLING AND STORAGE

**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.

**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### SECTION 7 NOTES:

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

**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 always 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.

### EXPOSURE GUIDELINES:

#### OSHA Permissible Exposure Limits (PELs):

Reagent	CAS#	OSHA PEL TWA	Note
Methyl Alcohol	67-56-1	200ppm (260 mg/m <sup>3</sup> )	Absorbed through skin.

**ACGIH Threshold Limit values (TLVs):**

Reagent	CAS#	ACGIH PEL TWA	ACGIH STEL	Note
Methyl Alcohol	67-56-1	200ppm (260 mg/m <sup>3</sup> )	250ppm (328 mg/m <sup>3</sup> )	Absorbed through skin.

**SECTION 8 NOTES:**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear, colorless

**ODOR:** Pungent

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** No 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:**

## SECTION 10: STABILITY AND REACTIVITY

**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):** Oxidizing agents

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Under normal conditions of storage and use, hazardous decomposition products should not occur. Hydrogen chloride gas may form if decomposition occurs.

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

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

**SECTION 10 NOTES:**

## SECTION 11: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

Oral: Methyl Alcohol: LD50 (oral, mouse) = 0.4 g/kg, LD50 (oral, rat) = 6.2-13 g/kg LD50 (oral, rabbit) = 14.4 g/kg  
 LDlo (Oral, human) 143 mg/kg (Signs and symptoms of dyspnea and GI disturbances such as nausea, vomiting and diarrhea)

Inhalation: Methyl Alcohol: LC50 (Inhalation, rat) = 128.2 mg/l 4 hrs; LC50 (Inhalation, rat) = 87.6 mg/l 6 hrs

Dermal LD50: Methyl Alcohol: Rabbit LD50 = 17,100 mg/kg

Skin corrosion/irritation: No data available

Eyes: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

Methyl Alcohol: NIOSH: Not classifiable as a human carcinogen ACGIH: Not classifiable as a human carcinogen  
NTP: Not classifiable as a human carcinogen IARC: Not classifiable as a human carcinogen

**Potential health effects:**

**Inhalation:** Harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** Contains Methyl Alcohol: Toxic. Can be fatal or cause blindness through ingestion. Ingestion may cause gastrointestinal disturbances such as nausea, vomiting and diarrhea. Cannot be made non-poisonous. Systemic toxicity and acidosis can occur. Advanced stages can lead to respiratory failure, kidney failure, coma, and death.

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

**Eyes:** Causes eye irritation

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

**TARGET ORGANS:** Eyes, Kidney, Liver, Heart, Central nervous system, Blood, Optic nerve

**SECTION 11 NOTES:**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY:**

**Acute fish Toxicity (Methanol)**

LD50 / 96 hours Lepomis macrochirus: 15,400 mg/L

LC50 / 96 hours Fathead minnow: 29,400 mg/L

**PERSISTANCE AND DEGRADABILITY:** Biodegradation is expected

**BIOACCUMULATIVE POTENTIAL:** Bioaccumulation is unlikely.

**MOBILITY IN SOIL:** 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**

<b>UN No.</b>	UN1230
<b>Proper Shipping Name</b>	Methanol Solutions
<b>Hazard Class</b>	3
<b>Packing Group</b>	II

**TDG**

<b>UN No.</b>	UN1230
<b>Proper Shipping Name</b>	Methanol Solutions
<b>Hazard Class</b>	3
<b>Subsidiary Hazard Class</b>	6.1
<b>Packing Group</b>	II

**IATA**

<b>UN No.</b>	UN1230
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**Proper Shipping Name** Methanol Solutions  
**Hazard Class** 3  
 Subsidiary Hazard Class 6.1  
**Packing Group** II

#### IMDG/IMP

**UN No.** UN1230  
**Proper Shipping Name** Methanol Solutions  
**Hazard Class** 3  
 Subsidiary Hazard Class 6.1  
**Packing Group** II

### SECTION 15: REGULATORY INFORMATION

#### United States

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

#### U.S. Federal regulations:

**United States inventory (TSCA 8b):** Listed on 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 302/311/312/313 hazardous chemicals:** No products were found.

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

Methanol: Flammable liquid, Acute Health Hazard, Chronic health hazard

**CERCLA:** Methanol CAS-No. 67-56-1. RQ: 5,000 lbs.

#### DEA List I & II Chemicals

**(Precursor Chemicals):** Not Listed

**RTK STATES:** Methyl Alcohol CAS 67-56-1 CT, MA, NJ, PA

#### California Prop. 65

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

#### CANADA

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

#### Canadian lists:

**CEPA Toxic substances:** The following components are listed: None

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

**Canadian NPRI:** The following components are listed: Methanol

#### 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.

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**Reviewed 07/14/2017**