

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Alpha-Amylase Solution (1%)

**SYNONYMS:** None

**PRODUCT CODES:** ES37703, Component of Stain Kit ES4825

**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:** Respiratory Sensitization Category 1, Acute toxicity, Oral Category 5



**Signal Word:** Danger

Hazard Phrases	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H303	May be harmful if swallowed.

Precautionary Phrases	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash hands thoroughly after handling.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing

## 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>% WT</b>
Alpha-Amylase	9000-90-2	<1
Sodium Chloride	7647-14-5	<1
Sodium Azide	26628-22-8	<0.1
Water	7732-18-5	>95

## 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. 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 you feel unwell.

#### 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:**

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

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

**SPECIAL FIRE FIGHTING PROCEDURES:** No unusual fire or explosive hazards expected.

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

#### SECTION 5 NOTES:

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### ACCIDENTAL RELEASE MEASURES:

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

#### SECTION 6 NOTES:

#### SECTION 7: HANDLING AND STORAGE

**HANDLING:** Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation.

**STORAGE:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight. Store at 2-8°C.

#### 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.

**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.

**EXPOSURE GUIDELINES:**

**NIOSH REL-C:** Sodium Azide 0.3mg/m<sup>3</sup> skin

**ACGIH Threshold Limit values (TLVs):** Sodium Azide 0.29mg/m<sup>3</sup> ceiling

**SECTION 8 NOTES:**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Colorless to slightly yellow

**ODOR:** Odorless

**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:**

SECTION 10: STABILITY AND REACTIVITY

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

**CONDITIONS TO AVOID (STABILITY):** Avoid heat, sparks, flames, and all other sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids and bases.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: oxides of carbon.

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

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

**SECTION 10 NOTES:** Sodium Azide may react with lead and copper plumbing to form explosive metal azides.

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: Irritating to skin and mucous membranes

Serious eye damage/eye irritation: no data available

Eyes: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Sodium azide is a known mutagen

Carcinogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects:

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin.

Eyes: May irritate eyes

**ROUTES OF ENTRY:** Skin/eye contact, inhalation

**SECTION 11 NOTES:**

SECTION 12: ECOLOGICAL INFORMATION

**TOXICITY:** No data available

**PERSISTENCE 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:** Not Regulated

**TDG:** Not Regulated

**IATA:** Not Regulated

**IMDG/IMP:** Not Regulated

SECTION 15: REGULATORY INFORMATION

**United States**

**HCS Classification:** Irritant

**U.S. Federal regulations:**

**TSCA 8(a) IUR:** Listed on inventory.

**United States inventory (TSCA 8b):** Listed on inventory.

**SARA 302/304/311/312 extremely hazardous substances:** Sodium Azide CAS 26628-22-8

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

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

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

Acute Health Hazard; Chronic Health Hazard

**SARA 313 Form R - Reporting:**

The following components are subject to reporting levels established: Sodium Azide CAS 26628-22-8

**DEA List I & II Chemicals**

**(Precursor Chemicals):**

Not Listed

**CERCLA:**

**RTK STATES:** Sodium Azide CAS# 26628-22-8 NJ, PA, MA Sodium chloride CAS#7647-14-5: PA, NJ

Alpha-Amylase CAS# 9000-90-2 PA, NJ

**California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**CANADA**

**WHMIS (Canada):**

Not classified

**Canadian lists:**

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

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

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

**CEPA DSL / CEPA NDSL:**

All components are listed or exempted.

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

**International regulations**

**International lists:**

**Australia inventory (AICS):** All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted.

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

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

**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.

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

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 10/01/2018