

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** S-Mounting Medium W/Acrylic

**SYNONYMS:** None

**PRODUCT CODES:** ES723, ES724

**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:**

Emergency Overview: Danger!



Hazard Phrases	
H225	Highly flammable liquid and vapor.
H301+H311	Toxic if swallowed or in contact with skin.
H315	Causes skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H331	Toxic if inhaled.
H318	Causes serious eye damage.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301+P310	IF SWALLOWED: 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.
P243	Take precautionary measures against static discharge.

**SECTION 2 NOTES:**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Toluene	108-88-3	55%
Resin	N/A	45%

**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:** Flammable

**FLASH POINT:** 39.2°F Open cup

**FLAMMABLE LIMITS:** LEL 1.2 UEL 7.1

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0**  
**OTHER:**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 2 FLAMMABILITY: 3 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:** Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Burns with invisible

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, Ketones

**SECTION 5 NOTES:** Caution, Static accumulator!

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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:** Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined area: dike if needed. Advise EPA and state agencies if large spills occur that could reach any surface water

**SECTION 6 NOTES:**

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** Keep away from heat. Keep away from sources of ignition. Ground and bond all equipment containing material. Do not

# SDS Safety Data Sheet – S-Mounting Medium W/Acrylic

02/2015

ingest. Do not breathe gas/ fumes/ vapor/ spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

**STORAGE:** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

**SECTION 7 NOTES:**

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**SECTION 8: EXPOSURE CONTROL/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:**

Component	Source	Type	Value	Note
Toluene	ACGIH TLV	STEL	250 ppm 15 minute(s)	Absorbed through skin
	ACGIH TLV	TWA	200 ppm 8 hour(s)	Absorbed through skin
	OSHA PEL	TWA	200 ppm 8 hour(s)	Absorbed through skin
	OSHA PEL	STEL	300 ppm 15 minute(s)	Absorbed through skin
	NIOSH REL	TWA	200 ppm 10 hour(s)	Absorbed through skin
	NIOSH REL	STEL	250 ppm 15 minut(s)	Absorbed through skin

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Clear, light amber color

**ODOR:** Sweet odor

**ODOR THRESHOLD:** 0.16 ppm

**PHYSICAL STATE:** liquid

**pH AS SUPPLIED:** Not Available

**BOILING POINT:** 110°C ( 233°F)

**MELTING/FREEZING POINT:** -95°C (-139°F)

**VAPOR PRESSURE (mmHg):** 28.4 mm Hg Toluene

**VAPOR DENSITY (AIR = 1):** 3.1

**EVAPORATION RATE:** Not Available

**SOLUBILITY IN WATER:** Not 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):** Strong oxidizers, chromic anhydride, organic acids

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

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

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

**SECTION 10 NOTES:**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Acute toxicity****Oral LD50**

Rat: 2,600-7,500 ppm

**Inhalation LC50**

Rat: 8000 ppm, 4 hours

**Dermal LD50**

Rabbit: 12 hours, 124 mg/kg

**Other information on acute toxicity**

no data available

**Skin irritation**

Rabbit mild; 500 mg Rabbit moderate; 20 mg/24hours

**Eye irritation**

Human; 300 ppm Rabbit mild; 435 mg

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

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

no data available

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

no data available

**Aspiration hazard**

no data available

**Signs and Symptoms of Exposure**

Vision blurring, drowsiness, and headache.

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

**CHRONIC HEALTH HAZARDS:** May cause liver, heart and kidney damage. Repeated or prolonged exposure to toluene may cause headache, loss of appetite, drowsiness, nervousness and pallor. Continued repeated inhalation of toluene to the point of euphoria has caused irreversible encephalopathy with ataxis, tremulousness, emotional lability, and diffuse cerebral atrophy.

**ACUTE HEALTH HAZARDS:** Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting. Kidney or liver damage may occur.

**TARGET ORGANS:** Nervous/Blood system, kidney, liver, heart, eyes

**SECTION 11 NOTES:**

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**SECTION 12: ECOLOGICAL INFORMATION**

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# SDS Safety Data Sheet – S-Mounting Medium W/Acrylic

02/2015

**Ecotoxicity:** Bluegill LC50=17 mg/L/24H Shrimp LC50=4.3 ppm/96H Fathead minnow LC50=36.2 mg/L/96H Sunfish (fresh water) TLm=1180 mg/L/96H

**Environmental:** From soil, substance evaporates and is microbially biodegraded. In water, substance volatilizes and biodegrades.

**Physical:** Photochemically produced hydroxyl radicals degrade substance.

**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.

**RCRA P-Series:** None listed.

**RCRA U-Series:** CAS# 108-88-3: waste number U220.

**SECTION 13 NOTES:**

Hazardous to the environment, do not dispose of down drains or release into river ways.

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:** Toluene

**HAZARD CLASS:** 3

**ID NUMBER:** UN1294

**PACKING GROUP:** II

**LABEL STATEMENT:**

**ENVIRONMENTAL HAZARDS:** No

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** Toluene

**HAZARD CLASS:** 3

**ID NUMBER:** UN1294

**PACKING GROUP:** II

**LABEL STATEMENTS:**

**OTHER AGENCIES:****Canadian TDG:**

**PROPER SHIPPING NAME:** Toluene

**HAZARD CLASS:** 3

**ID NUMBER:** UN1294

**PACKING GROUP:** II

**LABEL STATEMENTS:** Flashpoint 4°C

**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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**United States****HCS Classification:**

Flammable liquid

Highly toxic material

Irritating material

Target organ effects

**U.S. Federal regulations:**

**United States inventory (TSCA 8b):** None of the chemicals are listed

TSCA8 (d) H and S data reporting: Toluene : 1982

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

**SARA Codes:** Toluene CAS # 108-88-3: acute, flammable.

**Section 313**

# SDS Safety Data Sheet – S-Mounting Medium W/Acrylic

02/2015

This material contains Toluene (CAS# 108-88-3, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:**

CAS# 108-88-3 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

CAS# 108-88-3 is listed as a Hazardous Substance under the CWA. CAS# 108-88-3 is listed as a Priority Pollutant under the Clean Water Act. CAS# 108-88-3 is listed as a Toxic Pollutant under the Clean Water Act.

**DEA List II Chemicals**

(Essential Chemicals): Toluene

RTK: Toluene, CAS 108-88-3, Listed, FL, MA, MN, 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.

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Toluene	No	Yes		7000 ug/day

**CANADA**

**WHMIS (Canada):**

**Canadian lists:**

Class B-2: Flammable liquid  
 Class D-2B: Material causing other toxic effects (Toxic)  
**CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** The following components are listed:  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**CEPA DSL / CEPA NDSL:**

All components are listed or exempted.

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

**International regulations**

**International lists:**

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

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

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

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

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

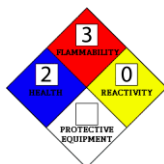
**Philippines inventory (PICCS):** All components are listed or exempted.

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**SECTION 16: OTHER INFORMATION**

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



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

**PREPARATION INFORMATION: Prepared 2/2015 REV1**

**5/5/2015 REV2** Changes: NFPA from 1-3-0-0 to 2-3-0-0. Added pictogram for organ damage.