

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: S-Mounting Medium, 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: Flammable liquid Category 2; Serious eye damage/irritation Category 2A; Skin corrosion, Irritation Category 2; Acute toxicity, Oral Category 4; Acute toxicity, Inhalation Category 4; Specific Target Organ Toxicity -repeated exposure Category 2



Signal Word: Danger!

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P264	Wash hands thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P307+P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P370+P378	In case of fire: Use CO2, dry chemical or foam for extinction.

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:

SECTION 4: FIRST AID MEASURES

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

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

INGESTION: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, have person lean forward to avoid aspiration. 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:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: OSHA/NFPA Class IC Flammable Liquid

FLASH POINT: 39.2°F Open cup

AUTOIGNITION TEMPERATURE: Not Available

UPPER / LOWER FLAMMABILITY LIMITS: Lower Limit - 1.2 vol %, Upper Limit - 7.1 vol %

NFPA HAZARD CLASSIFICATION

HEALTH:2 FLAMMABILITY: 3 REACTIVITY: 0

OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH:2 FLAMMABILITY: 3 REACTIVITY: 0

PROTECTION:

EXTINGUISHING MEDIA: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

NOT SUITABLE: Do not use water jet.

SPECIAL FIRE FIGHTING PROCEDURES: 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.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, Ketones

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Burns with invisible flame.

SECTION 5 NOTES: Caution: Static accumulator.

SECTION 6: ACCIDENTAL RELEASE MEASURES**ACCIDENTAL RELEASE MEASURES:**

Small spill and leak: Shut off all ignition sources. Put on appropriate personal protective equipment (see Section 8). 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:**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. 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 other ignition source.

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 and strong acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

SECTION 7 NOTES:**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 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:
OSHA Permissible Exposure Limits (PELs):

Reagent	CAS#	OSHA PEL TWA	Note
Toluene	108-88-3	200 ppm 8 hour(s)	Absorbed through skin

ACGIH Threshold Limit values (TLVs):

Reagent	CAS#	ACGIH PEL TWA	Note
Toluene	108-88-3	20 ppm (75 mg/m ³)	Absorbed through skin

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, light amber color

ODOR: Characteristic hydrocarbon

ODOR THRESHOLD: 0.16 ppm

PHYSICAL STATE: liquid

pH AS SUPPLIED: Not available

BOILING POINT: 110°C (233°F)

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

VAPOR PRESSURE (mmHg): 28.4 mm Hg Toluene

VAPOR DENSITY (AIR = 1): 3.1 [Air=1]

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: Insoluble

MOLECULAR WEIGHT: Mixture

VISCOSITY: Not available

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. Direct sunlight.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, chromic anhydride, organic acids

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:

SECTION 11: TOXICOLOGICAL INFORMATION

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

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC: (Toluene): Group 3: Not classifiable as to its carcinogenicity to humans

ACGIH: No components are listed

OSHA: No components are listed

POTENTIAL HEALTH EFFECTS:

Eyes: Causes eye irritation.

Ingestion: May cause irritation of the digestive tract. May cause central nervous system depression characterized by excitement followed by nausea, headache, and unconsciousness.

Inhalation: Prolonged exposures may result in dizziness and general weakness. Irritation may lead to pneumonitis and pulmonary edema.

Skin: May be harmful if absorbed through the skin. Causes skin irritation, defatting, cracking, and dryness

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.

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

TARGET ORGANS: Nervous/Blood system, kidney, liver, heart, optic nerve

SIGNS AND SYMPTOMS OF EXPOSURE: Vision blurring, drowsiness, and headache

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

Ecotoxicity (aquatic and terrestrial, where available):

<u>Species</u>	<u>Period</u>	<u>Result</u>
Daphia Magna (EC50)	48 hour/hours	>10000 mg/l
Oncorhynchus myKiss (EC50)	48 hour/hours	13200 mg/l
Lepomis Macrochirus (EC50)	48 hour/hours	16000 mg
Daphia Magna (LC50)	96 hour/hours	>100 mg/l
Pimephales Promelas (LC 50)	96 hour/hours	>100 mg/l
Lepomis Macrochirus (LC50)	96 hour/hours	15400 mg/l

PERSISTENCE AND DEGRADABILITY: From soil, substance evaporates and is microbially biodegraded. In water, substance volatilizes and biodegrades.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely.

MOBILITY IN SOIL: No data available

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: Toluene CAS#108-88-3: U220

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

UN No.

UN1294

Proper Shipping Name Toluene
Hazard Class 3
Packing Group II

TDG

UN No. UN1294
Proper Shipping Name Toluene
Hazard Class 3
Packing Group II

IATA

UN No. UN1294
Proper Shipping Name Toluene
Hazard Class 3
Packing Group II

IMDG/IMP

UN No. UN1294
Proper Shipping Name Toluene
Hazard Class 3
Packing Group II
EMS-No: F-E, S-E

SECTION 15: REGULATORY INFORMATION

United States

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

U.S. Federal regulations:

TSCA 8(a) IUR: Partial exemption

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

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

Toluene CAS# 108-88-3: (acute) health hazard, flammable.

SARA 313 Form R - Reporting:

Toluene CAS# 108-88-3 is reportable under section 313 and 40 CFR373.

CERCLA: Toluene CAS# 108-88-3 RQ 1000 lbs. (454 kg)

DEA List I & II Chemicals

(Precursor Chemicals): Toluene

RTK STATES: Toluene CAS# 108-88-3 FL, MA, MN, NJ, PA, CT

California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Toluene CAS# 108-88-3

CANADA

WHMIS (Canada):

Class B-2: Flammable Liquid

Class D-1A: Material causing immediate and serious toxic effects (Very Toxic)

Class D-2B: Material causing other toxic effects (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.

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 02/19/2015 REV1

5/5/2015 REV2 Changes: NFPA from 1-3-0-0 to 2-3-0-0. Added pictogram for health hazard.

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