

AV-502-MV Injectable Bonding Epoxy MV Hardener™ (Part B)

SECTION 1. IDENTIFICATION

Product Identifier	AV-502-MV Injectable Bonding Epoxy MV Hardener (Part B)
Other Means of Identification	Low viscosity epoxy bonding adhesive, hardener
Recommended Use	Industrial Use Only.
Restrictions on Use	Not applicable.
Manufacturer/Supplier Identifier	Avanti International, 822 Bay Star Blvd, Webster, TX, 77598, USA, 281.486.5600, avantigrout.com
Emergency Phone No.	ChemTrec, 800.424.9300
Date of Preparation	June 14, 2019

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 2; Eye irritation - Category 2; Skin sensitization - Category 1;



Label Elements

Signal Word:

Warning

Hazard Statement(s):

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation

Precautionary Statement(s):

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands and skin thoroughly after handling.

P280 Wear protective gloves/clothing/eye protection/face protection.

Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Moderate eye irritant. Moderate skin irritant. May cause sensitization by skin contact.

HMIS Rating: Health-2 Flammability-1 Physical Hazard-0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Aliphatic polyamide amine	Trade Secret	>90		
Triethylenetetraamine	112-24-3	<10		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

General information

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately

Inhalation

Supply fresh air; consult doctor in case of complaints.

Skin Contact

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Take off contaminated clothing and shoes immediately.

Eye Contact

Rinse immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a doctor.

Ingestion

Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Do not induce vomiting; call for medical help immediately.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

Repeated and/or prolonged exposures to low concentrations of vapors or aerosols may cause: sore throat, asthma, eye disease, kidney disorders, liver disorders, skin disorders and allergies. May cause allergic reaction.

Immediate Medical Attention and Special Treatment

Target Organs

Special Instructions

Medical Conditions Aggravated by Exposure

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

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Suitable Extinguishing Media

Dry powder, carbon dioxide, foam.

Unsuitable Extinguishing Media

Specific Hazards Arising from the Product

May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained respiratory protective device. Wear fully protective suit.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary. Keep endangered receptacles cool with water fog or haze. Eliminate all ignition sources if safe to do so.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected person away. Ensure adequate ventilation. Keep away from ignition sources.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Absorb liquid components with liquid-binding material. Send for recovery or disposal in suitable receptacles. Dispose contaminate material as waste according to item 13. Ensure adequate ventilation.

Other Information

Contact supplier, local fire and emergency services for help. Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Handle and open container with care. Use only in area provided with appropriate exhaust ventilation. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. Wash thoroughly after handling. Use only in well-ventilated areas.

Conditions for Safe Storage

Store in an area that is: cool, dry, and ventilated, in tightly closed receptacles (60-80°F recommended). Keep away from heat and flame. Use only receptacles specifically permitted for this substance/product.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Aliphatic polyamide amine	N/A	N/A	N/A	N/A	N/A	N/A
Triethylenetetraamine	N/A	N/A	N/A	N/A	N/A	N/A

Appropriate Engineering Controls

Ensure that eyewash stations and safety showers are close to the workstation location. Provide ventilation adequate to ensure concentrations are minimized.

Individual Protection Measures

General Protection

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

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Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols. Avoid contact with the eyes and skin.

Eye/Face Protection

Wear chemical safety goggles or safety glasses with side shields. Wear chemical safety goggles or safety glasses with side shields.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Suitable materials are: Chemical Resistant Gloves: butyl rubber, neoprene rubber, nitrile rubber, polyvinyl chloride, Viton®/butyl rubber. Protective work clothing. Where potential exposure warrants, rubber or plastic boots and Chemical Resistant Suit: Tychem, Saranex®.

Respiratory Protection

Not required under normal conditions of use. Use suitable respiratory protective device in case of insufficient ventilation. For spills, respiratory protection may be advisable. Wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s). And wear a NIOSH approved air-purifying respirator with an organic vapor cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Amber liquid.
Odour	Amine-like
Odour Threshold	Not available
pH	>7 (Alkaline)
Melting Point/Freezing Point	Not available
Initial Boiling Point/Range	≥350°F/ ≥176.67°C
Flash Point	≥212°F/ ≥100°C
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1 g/cm³)	0.97 @ 20°C
Solubility	Slightly soluble.
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	8,000 – 16,000 centipoises

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Reacts with strong alkali. Exothermic polymerization. Reacts with strong acids and oxidizing agents. Reacts with catalysts.

Conditions to Avoid

Avoid contact with strong oxidizing agents, excessive heats or flames.

Incompatible Materials

Strong acids, bases and oxidizing agents.

Hazardous Decomposition Products

Nitric acid, ammonia nitrogen oxides (NO_x), nitrogen oxide can react with water vapors to form corrosive nitric acid, carbon monoxide, carbon dioxide, aldehydes, flammable hydrocarbon fragments.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure Inhalation; ingestion; skin contact; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Aliphatic polyamide amine	No data available	No data available	1090 mg/kg (rabbit)
Triethylenetetraamine	No data available	No data available	3000 mg/kg (rabbit)

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/Irritation

Causes eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

May cause allergic skin reactions.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Aliphatic polyamide amine	Not listed	Not listed	Not listed	Not listed
Triethylenetetraamine	Not listed	Not listed	Not listed	Not listed

No information was located.

Reproductive Toxicity Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available on the product itself.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Aliphatic polyamide amine	No data available	No data available	No data available	No data available
Triethylenetetraamine	No data available	No data available	No data available	No data available

Persistence and Degradability

No information available.

Bioaccumulative Potential

No information available.

Mobility in Soil

No information available.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations. This product should not be allowed to enter drains, water courses or the soil.

SECTION 14. TRANSPORT INFORMATION

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Hazard
DOT
Not Regulated

IATA
Not Regulated

IMDG
Not Regulated

TDG
Not Regulated

Special Precautions

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

EPCRA 311/312 (Hazard categories):

EPCRA 313: CAS Number	Chemical name
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CERCLA RQ	CAS Number	Chemical name
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SARA

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

Component(s) above 'de minimus' level: none

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 2** **Instability - 0**

SDS Prepared By Avanti International

Date of Preparation June 14, 2019

Date of Last Revision June 25, 2019

Revision Indicators Not applicable.

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

OSHA = US Occupational Safety and Health Administration

RTECS® = Registry of Toxic Effects of Chemical Substances

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