

AV-590 Joint Filler Polyurea Resin™ (Part A)

SECTION 1. IDENTIFICATION

Product Identifier	AV-590 Joint Filler Polyurea Resin (Part A)
Other Means of Identification	Polyurea joint filler
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

Acute toxicity (Oral) - Category 4; Acute toxicity (Dermal) - Category 4; Eye damage/irritant - Category 2; Specific target organ toxicity (repeated exposure) - Category 2; Acute aquatic toxicity - Category 1; Chronic aquatic toxicity - Category 1



Label Elements

Signal Word:

Warning

Hazard Statement(s):

H302+H312	Harmful if swallowed or in contact with skin.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands and skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P284	In case of inadequate ventilation wear respiratory protection.

Response:

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
-----------	---

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage
 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

May produce an allergic reaction. Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Diethylmethylbenzenediamine	68479-98-1	5 – 15	DETD	
Tetrahydroxypropylethylenediamine	102-60-3	5 – 10		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

If breathed in, move person into fresh air. Supply oxygen or artificial respiration if needed. In case of bluish discoloration (lips, ear lobes, fingernail), give oxygen as quickly as possible. Obtain medical attention.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with warm water and soap. If skin irritation occurs, seek medical advice/attention. Wash contaminated clothing before re-use. Destroy contaminated shoes.

Eye Contact

Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Obtain medical attention. Never give anything by mouth to an unconscious person.

First-aid Comments

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

Most Important Symptoms and Effects, Acute and Delayed

Sensitizing effects.

Immediate Medical Attention and Special Treatment

Target Organs

Kidneys, lungs, respiratory system.

Special Instructions

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

Medical Conditions Aggravated by Exposure

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water haze or fog, dry powder, carbon dioxide, foam.

Unsuitable Extinguishing Media

Water with full jet, water spray.

Specific Hazards Arising from the Product

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; very toxic polycyclic aromatic hydrocarbons.

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.

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

Toxic to aquatic life. Should not be released into the environment. 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. Protect from moisture. To avoid thermal decomposition, do not overheat. 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

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Diethylmethylbenzenediamine	N/A	N/A	N/A	N/A	N/A	N/A
Tetrahydroxypropylethylene diamine	N/A	N/A	N/A	N/A	N/A	N/A

Appropriate Engineering Controls

Product Identifier: AV-590 Joint Filler Polyurea Resin™ (Part A) - Ver. 1

Date of Preparation: June 14, 2019

Date of Last Revision: June 25, 2019

Use mechanical ventilation for general area control. Ensure that extracted air cannot be returned to the workplace through the ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual Protection Measures

General Protection

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

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 vapour cartridge. Either full-face piece or half-face piece with splash goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Gray liquid.
Odour	Amine-like
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available
Initial Boiling Point/Range	>200°C
Flash Point	>150°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/cm ³)	1.04 @ 20°C
Solubility	Slightly soluble.
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	1,000 – 3,000 centipoises

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical Stability

Normally stable.

Product Identifier: AV-590 Joint Filler Polyurea Resin™ (Part A) - Ver. 1
Date of Preparation: June 14, 2019
Date of Last Revision: June 25, 2019

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Moisture and heat.

Incompatible Materials

Strong acids, bases and oxidizing agents.

Hazardous Decomposition Products

Hazardous gases/vapors: carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Inhalation; skin contact; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Diethylmethylbenzene diamine	No data available	No data available	No data available
Tetrahydroxypropylethylene diamine	No data available	No data available	No data available

Skin Corrosion/Irritation

May cause irritation.

Serious Eye Damage/Irritation

May cause 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 data available

Respiratory and/or Skin Sensitization

May cause sensitization.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Diethylmethylbenzene diamine	No data available	No data available	No data available	No data available
Tetrahydroxypropylethylene diamine	No data available	No data available	No data available	No data available

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

Very toxic to aquatic life with long lasting effects.

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Diethylmethylbenzene diamine	No data available	No data available	No data available	No data available
Tetrahydroxypropylethylene diamine	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

Product Identifier: AV-590 Joint Filler Polyurea Resin™ (Part A) - Ver. 1

Date of Preparation: June 14, 2019

Date of Last Revision: June 25, 2019

Hazard**DOT** Not Regulated**IATA****UN number:** UN3082**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(diethylmethlbenzendiamine)**Hazard Clase:** 9**Packing Group:** III**Label(s):** 9**Marine Pollutant:** Yes**IMDG****UN number:** UN3082**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(diethylmethlbenzendiamine)**Hazard Clase:** 9**Packing Group:** III**Label(s):** 9**Marine Pollutant:** Yes**Special Precautions** Marine pollutant**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): Acute; Chronic**EPCRA 313: CAS Number** **Chemical name****CERCLA RQ** **CAS Number** **Chemical name****SECTION 16. OTHER INFORMATION****NFPA Rating** **Health - 2** **Flammability - 1** **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

Product Identifier: AV-590 Joint Filler Polyurea Resin™ (Part A) - Ver. 1

Date of Preparation: June 14, 2019

Date of Last Revision: June 25, 2019