

# Safety Data Sheet

## 1. Product and Company Identification

**Product Name:** AVM Epoxy Primer 401-FC (Fast Cure) – Part B

**Product Use:** Component B of two-part fast curing epoxy.  
**Uses Advised Against:** None known.

**Manufacturer:** AVM Industries, Inc.  
8245 Remmet Ave, Canoga Park CA 91304-4133  
www.avmindustries.com

**Information Phone Number:** (818) 888-0050  
**Emergency Phone Number:** Chemtrec 800-424-9300

**SDS Date of Preparation:** November 13, 2024

## 2. Hazards Identification

### GHS Classification:

Physical:	Health:
Not Hazardous	Acute Toxicity Category 4 (Oral) Skin Corrosion Category 1B Skin Sensitizer Category 1 Eye Damage Category 1 Specific Target Organ Toxicity Repeat Exposure Category 1 Reproductive Toxicity Category 2

### GHS Label Elements:

#### Danger!



H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H372 Causes damage to lungs through prolonged or repeated inhalation.  
H361 Suspected of damaging fertility or the unborn child.

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapors.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce Vomiting.  
P310 Immediately call a POISON CENTER or doctor.  
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P310 Immediately call a POISON CENTER or doctor.  
P363 Wash contaminated clothing before reuse.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P310 Immediately call a POISON CENTER or doctor.

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.

P308 + P313 IF exposed or concerned: Get medical attention.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

**Hazards not otherwise specified:** None known.

## 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Poly (propylene glycol) bis (2-aminopropyl ether)	14808-60-7	40-50%
Phenol, 4-nonyl-, branched	65997-15-1	30-40%
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane and 1-piperazineethanamine	1344-28-1	10-20%
1-(2-Aminoethyl) piperazine	1317-65-3	5-10%

**The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.**

## 4. First Aid Measures

**Inhalation:** Remove victim to fresh air. If breathing is difficult or irritation persists, get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and wash immediately with plenty of soap and water. Get immediate medical attention if irritation, rash, or other symptoms develop. Launder contaminated clothing before reuse.

**Eye Contact:** Immediately flush eyes thoroughly with large quantities of water for 20 minutes, while holding the eye lids open. Remove contact lenses if present and easy to do and continue rinsing. Get immediate medical attention.

**Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek immediate medical attention.

**Most Important Symptoms:** Causes severe eye damage and burns. Causes severe skin irritation and burns. Severe irritation or burns to gastrointestinal tract may occur if swallowed. Inhalation of mist or vapors may cause irritation or burns to mucous membranes and respiratory tract. Prolonged or repeated exposure may cause lung damage. Suspected of damaging fertility or the unborn child.

**Indication of Immediate Medical Attention/Special Treatment:** Get immediate medical attention for all routes of exposure.

## 5. Firefighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use water fog or spray, foam, carbon dioxide or dry chemical.

**Specific Hazards Arising from the Chemical:** Product is not flammable, combustible, or explosive. May burn under fire conditions. Thermal decomposition will generate oxides of carbon and toxic and irritating smoke and gases.

**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing.

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## 6: Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Ventilate the area. Keep unnecessary and unprotected personnel away from spill. Do not touch or walk through spilled material. Wear appropriate protective clothing and equipment.

**Methods and Materials for Containment and Clean-Up:** Cover with an inert absorbent material and collect into an appropriate container for disposal.

**Environmental Precautions:** Prevent entry into storm sewers and waterways. Report spill as required by local and national regulations.

## 7. Handling and Storage

**Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Product is part of a two-part fast curing epoxy. Read product label, SDS and instructions to both parts A and B prior to use. Do not breathe mist of vapors. Prevent contact with the eyes and skin. Wear appropriate protective clothing and equipment handling this material. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. Immediately remove contaminated clothing and laundry before re-use. Launder contaminated separately from personal clothing. Contaminated work clothing must not be allowed out of the workplace.

Empty containers may contain product residue and may be hazardous. Follow all SDS precautions in handling empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated location away from high heat, direct sunlight, and moisture. Keep away from oxidizers, strong acids, strong bases, and other incompatible materials. Keep containers closed when not in use.

## 8. Exposure Controls / Personal Protection

### Exposure Guidelines:

CHEMICAL	EXPOSURE LIMIT
Poly (propylene glycol) bis (2-aminopropyl ether)	None established
Phenol, 4-nonyl-, branched	None established
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane and 1-piperazineethanamine	None established
1-(2-Aminoethyl) piperazine	None established

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposures below excessive concentrations.

### Personal Protective Equipment

**Respiratory Protection:** For operations where exposures are excessive, a NIOSH approved organic vapor/particulate or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134, all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** Wear chemical resistant gloves to prevent skin contact. Contact glove supplier for specific material type and break-through times.

**Eye Protection:** Wear chemical safety goggles and face protection.

**Other Protective Equipment/Clothing:** Impervious clothing as needed to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area. If clothing

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becomes contaminated remove immediately and launder before reuse.

## 9. Physical and Chemical Properties

**Appearance and Odor:** Straw colored liquid with an amine odor.

<b>Physical State:</b> Liquid	<b>Odor Threshold:</b> Not determined
<b>pH:</b> Not applicable	<b>Specific Gravity:</b> 0.976
<b>Initial Boiling Point/Range:</b> 220°C (428°F)	<b>Vapor Pressure:</b> Not applicable
<b>Melting/Freezing Point:</b> Not applicable	<b>Relative Vapor Density:</b> Not determined
<b>Solubility In Water:</b> Not determined	<b>Percent Volatile:</b> Not determined
<b>Dynamic Viscosity:</b> Not determined	<b>Evaporation Rate:</b> Not determined
<b>Kinematic Viscosity:</b> Not determined	
<b>Relative Density:</b> Not determined	<b>VOC Content:</b> 0
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Autoignition Temp:</b> Not determined
<b>Flash Point:</b> > 93°C (>199.4°F)	<b>Flammability:</b> Not applicable
<b>Flammability Limits:</b> Not determined	<b>Decomposition Temperature:</b> Not determined
<b>Particle Characteristics:</b> Not applicable	

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive. Component is designed to polymerize in contact with Part A of this product.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous reactions will not occur under normal conditions of storage and use.

**Conditions to Avoid:** Keep away from high heat, direct sunlight, moisture, and incompatible materials.

**Incompatible Materials:** Keep away from oxidizers, strong acids, strong bases, and moisture.

**Hazardous Decomposition Products:** Thermal decomposition will generate oxides of carbon and toxic and irritating smoke and gases.

## 11. Toxicological Information

### Potential Health Effects:

#### **Acute Hazards:**

**Inhalation:** Inhalation of mist or vapors may cause irritation or burns to mucous membranes and respiratory tract.

**Skin Contact:** Causes severe skin irritation and burns.

**Eye Contact:** Causes severe eye damage and burns.

**Ingestion:** Severe irritation or burns to gastrointestinal tract may occur if swallowed.

**Chronic Effects:** Prolonged or repeated inhalation exposure may cause lung damage.

**Carcinogenicity Listing:** None of the components are listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

**Reproductive Toxicity:** 1-(2-Aminoethyl) piperazine: Suspected of damaging fertility or the unborn child.

**Germ Cell Mutagenicity:** Not classified.

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## Numerical Measures of Toxicity:

Product ATE:	LD50 Oral >300 - <=2000 mg/kg. (Calculated) LD50 Dermal 8660 mg/kg. (Calculated)
Poly (propylene glycol) bis (2-aminopropyl ether):	LD50 Oral Rat: >2,000 mg/kg LD50 Dermal Rabbit: >2,000 mg/kg
Phenol, 4-nonyl-, branched:	LD50 Oral Rat: 1246 mg/kg LD50 Dermal Rabbit: >2,000 mg/kg
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane and 1-piperazineethanamine:	Not classified as acutely toxic.
1-(2-Aminoethyl) piperazine:	LD50 Oral Rat: 2097 mg/kg LD50 Dermal Rabbit: 866 mg/kg

## 12. Ecological Information

**Ecotoxicity:** This product is expected to be very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Poly (propylene glycol) bis (2-aminopropyl ether):	96 Hr. LC50 Oncorhynchus mykiss: >15 mg/L [semi-static] 96 Hr. LC50 Cyprinodon variegatus: 772.14 mg/L [static] 48 Hr. EC50 Daphnia magna: 80 mg/L [static] 48 Hr. EX50 Arcatia tonsa: 418.34 mg/L [static] 72 Hr. EC50 Pseudokirchneriella subcapitata: 15 mg/L [static] 72 Hr. EC50 Skeletonema costatum: 141.72 mg/L [static]
Phenol, 4-nonyl-, branched:	96 Hr. LC50 Pimephales promelas: 0.135 mg/L [flow-through]. 96 Hr. LC50 Lepomis macrochirus: 0.1351 mg/L [flow-through] 48 Hr. EC50 Daphnia magna: 0.14 mg/L 96 Hr. EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L [static]. 72 Hr. EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]. 72 Hr. EC50 Desmodesmus subspicatus: 1.3 mg/L
1-(2-Aminoethyl) piperazine:	96 Hr. LC50 Pimephales promelas: 1950 - 2460 mg/L [flow-through]. 96 Hr. LC50 Poecilia reticulata: >1000 mg/L [semi-static]. 96 Hr. LC50 Oncorhynchus mykiss: >=100 mg/L [semi-static] 48 Hr. EC50 Daphnia magna: 32 mg/L 72 Hr. EC50 Pseudokirchneriella subcapitata: 495 mg

**Persistence and Degradability:** No data available

**Bio accumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** No data available.

## 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

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## 14. Transport Information

**DOT Hazardous Materials Description:**

UN2735 Amines, liquid, corrosive, N.O.S (Poly (propylene glycol) bis (2-aminopropyl ether)) 8, PG II

**IMDG Dangerous Goods Description:**

UN2735 Amines, liquid, corrosive, N.O.S (Poly (propylene glycol) bis (2-aminopropyl ether)) 8, PG II  
(Marine Pollutant)

**IATA Dangerous Goods Description:**

UN2735 Amines, liquid, corrosive, N.O.S (Poly (propylene glycol) bis (2-aminopropyl ether)) 8, PG II

**Transport in Bulk According to IMO Instruments:** Not determined.

## 15. Regulatory Information

**United States:**

**EPA TSCA INVENTORY:** All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA Section 103:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA Hazard Category (311/312):** Classified under OSHA Hazcom 2024 GHS as per Section 2 of this SDS.

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

**California Proposition 65:** This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

## 16. Other Information

DATE OF CURRENT REVISION: November 13, 2024

REVISION SUMMARY: New SDS

DATE OF PREVIOUS REVISION: N/A

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