

SAFETY DATA SHEET

1. PRODUCTS AND COMPANY IDENTIFICATION

Product Name: AVM 680SC Epoxy Primer, PART-B (U-680SC-EP-B)

Product Use: Epoxy Resin Hardener

Manufacturer/Supplier

AVM Industries, Inc.
8245 Remmet Avenue
Canoga Park, CA 91304
www.avmindustries.com
Fax Number: (818) 888-0030

Medical Emergency:

(818) 888-0050
(818) 424-0082
(818) 456-9737

2. COMPONENT INFORMATION

Classification (GHS-US)

Flam. Liq. 2	H225
Flam. Liq. 3	H226
STOT SE 3	H336
Skin Irrit. 2	H315
STOT SE 3	H335
Muta. 1B	H340
Carc. 1A	H350
Tox. To Rep. 2	H361
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Acute 3	H400
Aquatic Chronic 1	H410
Aquatic Chronic 2	H411

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :



Signal Word (GHS-US) :

Hazard Statements (GHS-US) :

- : Danger
- : H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H361 - Suspected of damaging fertility or the unborn child
H372 - Causes damage to organs
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
- Precautionary Statements** :
- : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood

(GHS-US)

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical, lighting, ventilating equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge
 P260 - Do not breathe mist.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P280 - Wear eye protection, face protection, protective clothing, protective gloves
 P281 - Use personal protective equipment as required.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302+352 - IF ON SKIN: Wash with plenty of soap and water.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
 P308+313 - IF exposed or concerned: Get medical advice/attention.
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P314 - Get medical advice/attention if you feel unwell.
 P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).
 P331 - Do NOT induce vomiting.
 P332+313 - If skin irritation occurs: Get medical advice/attention.
 P362 - Take off contaminated clothing and wash before reuse.
 P370+P378 - In case of fire: Use appropriate media for extinction
 P391 - Collect spillage.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed
 P403 + P235 - Store in a well-ventilated place. Keep cool.
 P403+233 - Store in a well-ventilated place. Keep container tightly closed.
 P405 - Store locked up
 P501 - Dispose of contents/container according to local, regional, national, and international regulations

3. COMPONENT INFORMATION

Hazardous Components	CAS No.	OSHA PEL	ACGIH TLV	MFG TLV	Vapor Pressure mm Hg @ Temp
Modified Polyethylenepolyamine Adduct	Trade Secret	N/E	N/E		
Nonylphenol	251-4-52-3	N/E	N/E		
Aliphatic Ether Polyamines	9046-10-0	N/E	N/E		

*Indicates toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
 Information concerning non-hazardous ingredients is considered a trade secret.

4. FIRST AID INFORMATION

Eye Contact: Immediately flush with copious amounts of lukewarm water for at least 15 minutes. Have eyes examined and treated by medical personnel.

Skin Contact: Dry skin with paper towel or similar. Wash affected skin thoroughly with soap and water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if any discomfort continues. Wash contaminated clothes before reuse.

Inhalation: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Ingestion: If swallowed, Do Not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

5. FIRE FIGHTING MEASURES

Flash Point: 213°F Lower Explosive Limit: N/A
(Setaflash Closed Cup) Upper Explosive Limit: N/A
Autoignition Temperature: N/D
Extinguishing Media: Foam, CO₂, Dry Chemical, Water, Fog

Unusual fire and explosion hazards: Fire produces irritating or poisonous gas. Liquid is combustible when hot. Can form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid an/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.

Special Firefighting Procedures: Containers exposed to fire should be kept cool with water spray. As in fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE INFORMATION

Handling: Use only in a well ventilated area. Keep put of reach of children.
Storage: Keep away from heat, sparks and flame. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Respiratory Protection: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

Other Protective Equipment: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

Hygiene Practices: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

EXPOSURE LIMIT						
ITEM	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
Modified Polyethylenepolyamine Adduct	N.E.	N.E.	N.E.	N.E.	N.E.	NO
Nonylphenol	N.E.	N.E.	N.E.	N.E.	N.E.	NO
Aliphatic Ether Polyamines	N.E.	N.E.	N.E.	N.E.	N.E.	NO

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid	Octanol/Water Coefficient: Log K _{ow} = NA
Odor: NA	Vapor Pressure: 1 mm Hg @ 20°C
Physical state: Liquid	Vapor Density (air=1): > air
PH: Not applicable	Percent Volatile by Volume: NA
DOT Corrosivity: Not applicable	Volatile Organic Content: NA
Boiling Point: 230-232° F	Molecular Weight: NA
Melting Point: NA	Average Carbon Number: NA
Specific Gravity: 0.9759	Viscosity @ 100F: NA
Pour Point: NA	Viscosity@ 40C: NA

Solubility in Water: Appreciable	
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10. STABILITY AND REACTIVITY INFORMATION

Conditions to Avoid: Long term exposure to elevated temperatures.

Incompatible: Strong bases or oxidants. Strong Lewis or mineral acids.

Hazardous decomposition products: Poisonous & acrid fumes released on burning. Acrid fumes. Oxides of carbon.

Stability: This product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION (will only print available data)

Product Demal LD50: No Information Product Oral LD50: No information

Product LC50: No Information

COMPONENT TOXOLOGY INFORMATION:

CHEMICAL NAME	DEMAL LD 50	ORAL LD 50	LC 50
Polyethylene Polyamine Adduct	N/D	N/D	No Information
Nonylphenol	2.14 g/kg	0.58 g/kg	No Information
Aliphatic Ether Polyamines	2.98 g/kg	2.88 g/kg	No Information

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Not known.

Terrestrial Toxicity: Not known

Chemical Fate and Transport: Not known.

Ecological information: Toxic to fish and other water organisms.

13. DISPOSAL INFORMATION

Regulatory Information: Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal.

Waste Disposal Methods: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Corrosive Liquid, N.O.S.

DOT Technical Name: Nonlyphenol and Amino Ethyl Piperazine

DOT Hazard Class: Corrosive Liquid

Hazard Subclass: N/A

DOT Placard AT: 1000 lbs

DOT UN/NA Number: UN 1760

Pacing Group: III

Resp. Guide Page:

DOT Hazardous Class: 8

UN Proper Shipping Name: Corrosive Liquid, N.O.S. (nonylphenol and Amino Ethyl Piperazine)

UN Hazard Class: Corrosive Liquid

UN Class Number: Air 8

Marine: 8

Hazard Subclass: Air N/A

Marine: N/A

UN UN/NA Number: UN 1760

UN Packing Group: Air III

Marine: III

UN Placard AT: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations: As follows-

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA – SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

Chronic Health Hazard

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical	CAS Number
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None	
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Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

Chemical	CAS Number
None	

California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical	CAS Number
None	

International Regulations: as follows –

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations Except for use of the 16 headings.

Canadian WHMIS Class: No Information available.

16. OTHER INFORMATION

Health and Environmental Label Language

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL)

HMIS ratings – Health: 2 Flammability: 1 Reactivity: 0 Personal Protection: G

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. This data and information is furnished upon the condition that the person receiving it shall make his own determination of the conditions for safe use of this product.

Legend: N.A. – Not Applicable, N.E. – Not Established, N.D. – Not Determined

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