



# AVM Epoxy Primer 401 Part-A

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 12/06/2022

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : AVM Epoxy Primer 401 Part-A

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

AVM Industries, Inc.  
8245 Remmet Ave  
Canoga Park, CA 91304  
Tel: 818-888-0050  
Fax: 818-888-0030  
www.avmindustries.com

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300  
24 hour CHEMTREC contact:

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Liq. 3 H226  
Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
Skin Sens. 1 H317  
Carc. 2 H351  
Repr. 2 H361  
STOT RE 2 H373

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H226 - Flammable liquid and vapor.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H351 - Suspected of causing cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing spray, mist.  
P264 - Wash hands, forearms and face, clothing thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P302+P352 - If on skin: Wash with plenty of soap and water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

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Rinse skin with water/shower  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P314 - Get medical advice/attention if you feel unwell.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Bisphenol A-epichlorohydrin polymer	(CAS-No.) 25068-38-6	32 – 58
Kaolin	(CAS-No.) 1332-58-7	12 – 23
Silica: Crystalline, quartz	(CAS-No.) 14808-60-7	9 – 17
Oxirane, [[(2-ethylhexyl)oxy]methyl]-	(CAS-No.) 2461-15-6	8 – 15
Xylene	(CAS-No.) 1330-20-7	4 – 8
Benzene, 1-chloro-4-(trifluoromethyl)-	(CAS-No.) 98-56-6	3 – 5
Ethylbenzene	(CAS-No.) 100-41-4	1.2 – 2
Carbon black	(CAS-No.) 1333-86-4	0.3 – 0.5
Toluene	(CAS-No.) 108-88-3	Trace

\*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret.

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause an allergic skin reaction. Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : May cause gastrointestinal irritation.

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Chronic symptoms : Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical powder. Foam. Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media : Water jet.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Vapors may travel long distances along ground before igniting/flashing back to vapor source. Vapors may cause flash fire or ignite explosively.

Explosion hazard : Excessive pressure or temperature may cause explosive rupture of containers.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

Protection during firefighting : Wear positive pressure NIOSH self-contained breathing apparatus. Avoid breathing smoke, fumes, and decomposition products.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). Evacuate area. Keep upwind. Ventilate area. Eliminate all sources of ignition.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Do not touch or walk on the spilled product. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Remove all sources of ignition. Avoid breathing of vapors. Wear appropriate respirator and other protective clothing. Ventilate. Shut off source of leak only if safe to do so. Soak up with absorbent material, and place in non-leaking containers for proper disposal. Waste from this product may be hazardous as defined under RCRA (40 CFR 261).

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : When handling, personal protective equipment should be utilized (see sections 6 & 8). All articles of clothing and protective equipment that may have come in contact with the material should be removed prior to entering eating areas. Avoid contact with skin, eyes and clothing. Do not ingest, breath in vapor or mist, or release into environment.

Eyewash stations and showers should be available in areas where this material is used and stored.

Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep container securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Ground and bond containers and receiving equipment. Avoid static electricity by grounding. Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer container and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>Kaolin (1332-58-7)</b>		
ACGIH	ACGIH OEL TWA	2 mg/m <sup>3</sup> (E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica, R - Respirable particulate matter)
ACGIH	Remark (ACGIH)	TLV® Basis: Pneumoconiosis. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
NIOSH	NIOSH REL TWA	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Xylene (1330-20-7)</b>		
ACGIH	ACGIH OEL TWA	221 mg/m <sup>3</sup>
ACGIH	ACGIH OEL TWA [ppm]	50 ppm
ACGIH	ACGIH OEL STEL	442 mg/m <sup>3</sup>
ACGIH	ACGIH OEL STEL [ppm]	100 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	435 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA [2]	100 ppm
OSHA	OSHA PEL STEL [1]	655 mg/m <sup>3</sup>
OSHA	OSHA PEL STEL [2]	150 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>Ethylbenzene (100-41-4)</b>		
ACGIH	ACGIH OEL TWA [ppm]	20 ppm

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<b>Ethylbenzene (100-41-4)</b>		
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	435 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA [2]	100 ppm
OSHA	OSHA PEL STEL [1]	545 mg/m <sup>3</sup>
OSHA	OSHA PEL STEL [2]	125 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	IDLH [ppm]	800 ppm (10% LEL)
NIOSH	NIOSH REL TWA	435 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA [ppm]	100 ppm
NIOSH	NIOSH REL STEL	545 mg/m <sup>3</sup>
NIOSH	NIOSH REL STEL [ppm]	125 ppm
<b>Carbon black (1333-86-4)</b>		
ACGIH	ACGIH OEL TWA	3 mg/m <sup>3</sup> (I - Inhalable particulate matter)
ACGIH	Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	3.5 mg/m <sup>3</sup>
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	IDLH	1750 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA	3.5 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> (Carbon black in presence of Polycyclic aromatic hydrocarbons)
<b>Toluene (108-88-3)</b>		
ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [2]	200 ppm
OSHA	OSHA PEL C [ppm]	300 ppm (500 ppm Peak [10 minutes])
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm 10 mins.
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
IDLH	IDLH [ppm]	500 ppm
NIOSH	NIOSH REL TWA	375 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA [ppm]	100 ppm
NIOSH	NIOSH REL STEL	560 mg/m <sup>3</sup>
NIOSH	NIOSH REL STEL [ppm]	150 ppm

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<b>Oxirane, [[[2-ethylhexyl)oxy)methyl]- (2461-15-6)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>Silica: Crystalline, quartz (14808-60-7)</b>		
ACGIH	ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (respirable fraction)
ACGIH	Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	50 µg/m <sup>3</sup> (respirable fraction) (source: 29 CFR § 1910.1053)
OSHA	OSHA PEL TWA [2]	Where 1910.1053 is not in force, use formulas: (250 / (%SiO <sub>2</sub> +5)) for mppcf and (10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2)) for mg/m <sup>3</sup> (source: Table Z-3)
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
IDLH	IDLH	50 mg/m <sup>3</sup> (respirable dust)
NIOSH	NIOSH REL TWA	0.05 mg/m <sup>3</sup> (respirable dust)

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



Personal protective equipment:

Gloves. Protective goggles. Protective clothing.

#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

#### Eye protection:

Chemical goggles or full face shields are recommended to protect against splash of liquids.

#### Skin and body protection:

Avoid skin contact by wearing chemically resistant suit protecting against chemicals, chemically resistant gloves, a chemically resistant apron and other protective equipment depending upon conditions of use. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Inspect gloves and contact equipment for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Thin Pigmented Liquid
Color	: No data available
Odor	: Aromatic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 121 °C
Flash point	: 45 °C
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.30
Density	: 10.82 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

VOC content : 0 lb/gal ; VOC Part A & Part B combined: 0.83 lb/gal

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Material is stable at standard temperature and pressure.

#### 10.3. Possibility of hazardous reactions

Will not occur under normal conditions.

#### 10.4. Conditions to avoid

Heat, high temperature, open flame, sparks, moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.

#### 10.5. Incompatible materials

This product will react with amines, alkalis, acids, and strong oxidizing agents. Some reactions can be violent.

#### 10.6. Hazardous decomposition products

Combustion products: organic vapors and thermal decomposition fragments.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation. Any level of contact should not be left untreated.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer

<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

<b>Ethylbenzene (100-41-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

<b>Carbon black (1333-86-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

<b>Silica: Crystalline, quartz (14808-60-7)</b>	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

<b>Xylene (1330-20-7)</b>	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)

<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	40 mg/kg bodyweight Animal: rat, Animal sex: male

<b>Carbon black (1333-86-4)</b>	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
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<b>Bisphenol A-epichlorohydrin polymer (25068-38-6)</b>	
LC50 - Fish [1]	1.41 mg/l Source: National Institute of Technology and Evaluation
EC50 - Crustacea [1]	≈ 2 mg/l Test organisms (species): Daphnia magna
<b>Xylene (1330-20-7)</b>	
LC50 - Fish [1]	2.6 mg/l Source: ECHA
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
LC50 - Fish [1]	3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
EC50 - Crustacea [1]	3.68 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Ethylbenzene (100-41-4)</b>	
LC50 - Fish [1]	5.1 mg/l Source: ECHA
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
<b>Carbon black (1333-86-4)</b>	
LC50 - Fish [1]	> 1000 mg/l Source: NITE
ErC50 algae	> 10000 mg/l Source: EHCA
<b>Toluene (108-88-3)</b>	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

- Waste treatment methods : Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.
- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

### Transport by sea (IMDG)

- Transport document description (IMDG) : UN 1263 PAINT, 3, III
- UN-No. (IMDG) : 1263
- Proper Shipping Name (IMDG) : PAINT
- Class (IMDG) : 3 - Flammable liquids
- Packing group (IMDG) : III - substances presenting low danger

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Limited quantities (IMDG) : 5 L

### Air transport (IATA)

Transport document description (IATA) : UN 1263 Paint, 3, III  
 UN-No. (IATA) : 1263  
 Proper Shipping Name (IATA) : Paint  
 Class (IATA) : 3 - Flammable Liquids  
 Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

AVM Epoxy Primer 401 Part-A	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization Health hazard - Carcinogenicity Health hazard - Reproductive toxicity

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Xylene (1330-20-7)	
CERCLA RQ	100 lb

Ethylbenzene (100-41-4)	
CERCLA RQ	1000 lb

Toluene (108-88-3)	
CERCLA RQ	1000 lb

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

**WARNING:** This product can expose you to Benzene, 1-chloro-4-(trifluoromethyl)-, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Benzene, 1-chloro-4-(trifluoromethyl)-(98-56-6)	X				23 µg/day	
Ethylbenzene(100-41-4)	X				54 µg/day (inhalation); 41 µg/day (oral)	
Carbon black(1333-86-4)	X					
Toluene(108-88-3)		X				7000 µg/day
Silica: Crystalline, quartz(14808-60-7)	X					

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Component	State or local regulations
Xylene(1330-20-7)	U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Massachusetts - Right To Know List
Ethylbenzene(100-41-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Kaolin(1332-58-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Silica: Crystalline, quartz(14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

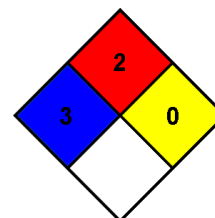
### SECTION 16: Other information

Other information : Author: SS

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



HMIS Hazard Rating

Health : 3\*

Health \* - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 2

Physical : 0

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



# AVM Epoxy Primer 401 Part-B

## Safety Data Sheet

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Issue date: 12/08/2022

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : AVM Epoxy Primer 401 Part-B

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

AVM Industries, Inc.  
8245 Remmet Ave  
Canoga Park, CA 91304  
Tel: 818-888-0050  
Fax: 818-888-0030  
www.avmindustries.com

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300  
24 hour CHEMTREC contact:

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Liq. 3 H226  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Skin Sens. 1B H317  
Carc. 2 H351  
Repr. 2 H361  
STOT RE 2 H373

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H226 - Flammable liquid and vapor.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H351 - Suspected of causing cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing mist/vapors/spray.  
P264 - Wash hands, forearms and face, clothing thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P302+P352 - If on skin: Wash with plenty of soap and water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

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Rinse skin with water/shower  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P314 - Get medical advice/attention if you feel unwell.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Silica: Crystalline, quartz	(CAS-No.) 14808-60-7	20 – 38
Titanium dioxide	(CAS-No.) 13463-67-7	8 – 15
Benzyl alcohol	(CAS-No.) 100-51-6	7 – 13
Formaldehyde, polymer with benzeneamine, hydrogenated	(CAS-No.) 135108-88-2	7 – 12
Tall oil fatty acids, reaction product with Tetraethylene pentamine	(CAS-No.) 68953-36-6	3 – 7
Xylene	(CAS-No.) 1330-20-7	3 – 5
Benzene, 1-chloro-4-(trifluoromethyl)-	(CAS-No.) 98-56-6	2 – 3
Ethylbenzene	(CAS-No.) 100-41-4	0.8 – 1.4
Tetraethylenepentamine	(CAS-No.) 112-57-2	0.7 – 1.2
1,3-Benzenedimethanamine	(CAS-No.) 1477-55-0	0.5 – 0.9

\*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret.

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause an allergic skin reaction. Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.

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- |                                  |   |
|----------------------------------|---|
| Symptoms/effects after ingestion | : May cause gastrointestinal irritation.  |
| Chronic symptoms                 | : Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. |

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Dry chemical powder. Foam. Carbon dioxide (CO <sub>2</sub> ). Water spray. |
| Unsuitable extinguishing media | : If water is used, use very large quantities of cold water.                 |

### 5.2. Specific hazards arising from the chemical

- |                  |   |
|------------------|---|
| Fire hazard      | : Vapors may travel long distances along ground before igniting/flashing back to vapor source. Vapors may cause flash fire or ignite explosively. |
| Explosion hazard | : Excessive pressure or temperature may cause explosive rupture of containers.  |
| Reactivity       | : The product is non-reactive under normal conditions of use, storage and transport.  |

### 5.3. Special protective equipment and precautions for fire-fighters

- |                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. |
| Protection during firefighting | : Wear positive pressure NIOSH self-contained breathing apparatus. Avoid breathing smoke, fumes, and decomposition products.   |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- |                  |  |
|------------------|--|
| General measures | : Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). Evacuate area. Keep upwind. Ventilate area. Eliminate all sources of ignition. |
|------------------|--|

#### 6.1.1. For non-emergency personnel

- |                      |  |
|----------------------|--|
| Protective equipment | : Wear Protective equipment as described in Section 8. |
| Emergency procedures | : Evacuate unnecessary personnel.                      |

#### 6.1.2. For emergency responders

- |                      |   |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency. |
|----------------------|---|

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- |                         |  |
|-------------------------|--|
| For containment         | : Stop leak if safe to do so. Do not touch or walk on the spilled product. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  |
| Methods for cleaning up | : Remove all sources of ignition. Avoid breathing of vapors. Wear appropriate respirator and other protective clothing. Ventilate. Shut off source of leak only if safe to do so. Soak up with absorbent material, and place in non-leaking containers for proper disposal. Waste from this product may be hazardous as defined under RCRA (40 CFR 261). |

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |  |
|-------------------------------|--|
| Precautions for safe handling | : When handling, personal protective equipment should be utilized (see sections 6 & 8). All articles of clothing and protective equipment that may have come in contact with the material should be removed prior to entering eating areas. Avoid contact with skin, eyes and clothing. Do not ingest, breath in vapor or mist, or release into environment.<br><br>Eyewash stations and showers should be available in areas where this material is used and stored.<br><br>Individuals with existing respiratory disease such as chronic bronchitis, emphysema, or asthma should not be exposed. |
|-------------------------------|--|

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep container securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Ground and bond containers and receiving equipment. Avoid static electricity by grounding. Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer container and equipment to conform to the national electrical code.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Xylene (1330-20-7)</b>		
ACGIH	ACGIH OEL TWA	221 mg/m <sup>3</sup>
ACGIH	ACGIH OEL TWA [ppm]	50 ppm
ACGIH	ACGIH OEL STEL	442 mg/m <sup>3</sup>
ACGIH	ACGIH OEL STEL [ppm]	100 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	435 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA [2]	100 ppm
OSHA	OSHA PEL STEL [1]	655 mg/m <sup>3</sup>
OSHA	OSHA PEL STEL [2]	150 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>Ethylbenzene (100-41-4)</b>		
ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	435 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA [2]	100 ppm
OSHA	OSHA PEL STEL [1]	545 mg/m <sup>3</sup>
OSHA	OSHA PEL STEL [2]	125 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	IDLH [ppm]	800 ppm (10% LEL)
NIOSH	NIOSH REL TWA	435 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA [ppm]	100 ppm
NIOSH	NIOSH REL STEL	545 mg/m <sup>3</sup>
NIOSH	NIOSH REL STEL [ppm]	125 ppm

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<b>Silica: Crystalline, quartz (14808-60-7)</b>		
ACGIH	ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (respirable fraction)
ACGIH	Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	50 µg/m <sup>3</sup> (respirable fraction) (source: 29 CFR § 1910.1053)
OSHA	OSHA PEL TWA [2]	Where 1910.1053 is not in force, use formulas: (250 / (%SiO <sub>2</sub> +5)) for mppcf and (10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2)) for mg/m <sup>3</sup> (source: Table Z-3)
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
IDLH	IDLH	50 mg/m <sup>3</sup> (respirable dust)
NIOSH	NIOSH REL TWA	0.05 mg/m <sup>3</sup> (respirable dust)
<b>Titanium dioxide (13463-67-7)</b>		
ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [1]	15 mg/m <sup>3</sup> total dust
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	IDLH	5000 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA	2.4 mg/m <sup>3</sup> (CIB 63-fine) 0.3 mg/m <sup>3</sup> (CIB 63-ultrafine, including engineered nanoscale)
<b>Benzyl alcohol (100-51-6)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
AIHA	WEEL TWA [ppm]	10 ppm
<b>Formaldehyde, polymer with benzeneamine, hydrogenated (135108-88-2)</b>		
OSHA	Remark (OSHA)	OELs not established
<b>Tall oil fatty acids, reaction product with Tetraethylene pentamine (68953-36-6)</b>		
OSHA	Remark (OSHA)	OELs not established
<b>Tetraethylenepentamine (112-57-2)</b>		
OSHA	Remark (OSHA)	OELs not established
AIHA	WEEL TWA	5 mg/m <sup>3</sup>
<b>1,3-Benzenedimethanamine (1477-55-0)</b>		
ACGIH	ACGIH OEL C	0.1 mg/m <sup>3</sup>
ACGIH	ACGIH OEL C [ppm]	0.018 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Eye, skin, & GI irr. Notations: Skin
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL C	0.1 mg/m <sup>3</sup> Vacated
NIOSH	NIOSH REL C	0.1 mg/m <sup>3</sup>
NIOSH	US-NIOSH chemical category	Potential for dermal absorption



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Toluene (108-88-3)		
ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2022
OSHA	OSHA PEL TWA [2]	200 ppm
OSHA	OSHA PEL C [ppm]	300 ppm (500 ppm Peak [10 minutes])
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm 10 mins.
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2
IDLH	IDLH [ppm]	500 ppm
NIOSH	NIOSH REL TWA	375 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA [ppm]	100 ppm
NIOSH	NIOSH REL STEL	560 mg/m <sup>3</sup>
NIOSH	NIOSH REL STEL [ppm]	150 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



Personal protective equipment:

Gloves. Protective goggles. Protective clothing.

#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

#### Eye protection:

Chemical goggles or full face shields are recommended to protect against splash of liquids.

#### Skin and body protection:

Avoid skin contact by wearing chemically resistant suit protecting against chemicals, chemically resistant gloves, a chemically resistant apron and other protective equipment depending upon conditions of use. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Inspect gloves and contact equipment for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Thin white liquid.
Color	: White
Odor	: Aromatic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 121 °C (300 °F)
Flash point	: 40 °C (104°F)
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Slower than ether
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.86
Density	: 15.52 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

#### 9.2. Other information

VOC content : 0 lb/gal ; VOC Part A & Part B combined: 0.83lb/gal

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Material is stable at standard temperature and pressure.

#### 10.3. Possibility of hazardous reactions

Will not occur under normal conditions.

#### 10.4. Conditions to avoid

Heat, high temperature, open flame, sparks, moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.

#### 10.5. Incompatible materials

This product will react with epoxies, isocyanates, and strong oxidizing agents. Some reactions can be violent.

#### 10.6. Hazardous decomposition products

Combustion products: organic vapors and thermal decomposition fragments.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation. Any level of contact should not be left untreated.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer

<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

<b>Ethylbenzene (100-41-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

<b>Titanium dioxide (13463-67-7)</b>	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	40 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Suspected of causing cancer. May cause damage to organs.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
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<b>Xylene (1330-20-7)</b>	
LC50 - Fish [1]	2.6 mg/l Source: ECHA
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'

<b>Benzene, 1-chloro-4-(trifluoromethyl)- (98-56-6)</b>	
LC50 - Fish [1]	3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
EC50 - Crustacea [1]	3.68 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>Ethylbenzene (100-41-4)</b>	
LC50 - Fish [1]	5.1 mg/l Source: ECHA
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

- Waste treatment methods : Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.
- Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for other purposes. Return drums to reclamation centers for proper cleaning and reuse.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transport by sea (IMDG)

- Transport document description (IMDG) : UN 1263 PAINT, 3, III
- UN-No. (IMDG) : 1263
- Proper Shipping Name (IMDG) : PAINT
- Class (IMDG) : 3 - Flammable liquids
- Packing group (IMDG) : III - substances presenting low danger
- Limited quantities (IMDG) : 5 L

### Air transport (IATA)

- Transport document description (IATA) : UN 1263 Paint, 3, III
- UN-No. (IATA) : 1263
- Proper Shipping Name (IATA) : Paint
- Class (IATA) : 3 - Flammable Liquids
- Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

AVM Epoxy Primer 401 Part-B	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization Health hazard - Carcinogenicity Health hazard - Reproductive toxicity

Xylene (1330-20-7)	
CERCLA RQ	100 lb

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<b>Ethylbenzene (100-41-4)</b>	
CERCLA RQ	1000 lb

<b>Toluene (108-88-3)</b>	
CERCLA RQ	1000 lb

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

**⚠ WARNING:** This product can expose you to Benzene, 1-chloro-4-(trifluoromethyl)-, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Benzene, 1-chloro-4-(trifluoromethyl)-(98-56-6)	X				23 µg/day	
Ethylbenzene(100-41-4)	X				54 µg/day (inhalation); 41 µg/day (oral)	
Silica: Crystalline, quartz(14808-60-7)	X					
Titanium dioxide(13463-67-7)	X				Not available	
Toluene(108-88-3)		X				7000 µg/day

Component	State or local regulations
Xylene(1330-20-7)	U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Massachusetts - Right To Know List
Toluene(108-88-3)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Ethylbenzene(100-41-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Tetraethylenepentamine(112-57-2)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Titanium dioxide(13463-67-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Silica: Crystalline, quartz(14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Barium sulfate(7727-43-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Benzyl alcohol(100-51-6)	U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

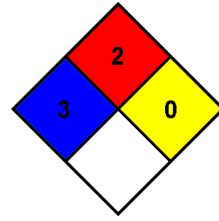
Other information : Author: SS.

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- NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### HMIS Hazard Rating

- Health : 3\*
- Health \* - Chronic (long-term) health effects may result from repeated overexposure
- Flammability : 2
- Physical : 0

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*