



# SAFETY DATA SHEET

Revision Date: 19-Sep-2018

Revision Number: 5

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** EPOXY MASTIC DEEP BASE  
**Product Code** V160-87  
**Alternate Product Code** V16087  
**Product Class** EPOXY  
**Color** All  
**Recommended use** Paint  
**Restrictions on use** No information available

**Manufacturer** Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
Phone: 1-866-708-9180  
corotechcoatings.com

**Emergency Telephone**  
CHEMTREC (US): 800-424-9300  
CHEMTREC (outside US): (703)-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |             |
|--|-------------|
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 2A |
| Respiratory sensitization                          | Category 1  |
| Skin sensitization                                 | Category 1  |
| Carcinogenicity                                    | Category 1A |
| Reproductive toxicity                              | Category 2  |
| Specific target organ toxicity (single exposure)   | Category 3  |
| Specific target organ toxicity (repeated exposure) | Category 1  |
| Aspiration toxicity                                | Category 1  |
| Flammable liquids                                  | Category 3  |

### Label elements

**Danger**

**Hazard statements**  
Causes skin irritation

Causes serious eye irritation  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause an allergic skin reaction  
 May cause cancer  
 Suspected of damaging fertility or the unborn child  
 May cause respiratory irritation. May cause drowsiness or dizziness  
 Causes damage to organs through prolonged or repeated exposure  
 May be fatal if swallowed and enters airways  
 Flammable liquid and vapor



**Appearance** liquid

**Odor** solvent

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool  
 Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

##### **Eyes**

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

If eye irritation persists: Get medical advice/attention

##### **Skin**

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

##### **Inhalation**

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

##### **Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

#### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other information

No information available

#### Other hazards

**IMPORTANT:** Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

### 3. COMPOSITION INFORMATION ON COMPONENTS

| Chemical name                              | CAS No.    | Weight-% |
|--|------------|----------|
| Polyamine adduct                           | -          | 25       |
| Zinc phosphate                             | 7779-90-0  | 20       |
| Silica, crystalline                        | 14808-60-7 | 15       |
| Benzyl alcohol                             | 100-51-6   | 10       |
| Titanium dioxide                           | 13463-67-7 | 10       |
| Xylene                                     | 1330-20-7  | 10       |
| Talc                                       | 14807-96-6 | 10       |
| Propylene glycol monomethyl ether          | 107-98-2   | 5        |
| Ethyl benzene                              | 100-41-4   | 5        |
| Triethylenetetramine                       | 112-24-3   | 5        |
| Solvent naphtha, petroleum, light aromatic | 64742-95-6 | 5        |
| Phenol, 2,4,6-tris[(dimethylamino)methyl]- | 90-72-2    | 0.5      |

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

##### Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

##### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes.

##### Inhalation

Move to fresh air. If symptoms persist, call a physician.

|  |   |
|--|---|
|  | If not breathing, give artificial respiration. Call a physician immediately.  |
| <b>Ingestion</b>                       | Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. |
| <b>Protection Of First-Aiders</b>      | Use personal protective equipment.  |
| <b>Most Important Symptoms/Effects</b> | May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.  |
| <b>Notes To Physician</b>              | Treat symptomatically.  |

## 5. FIRE-FIGHTING MEASURES

|  |   |
|--|---|
| <b>Flammable Properties</b>                                  | Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.  |
| <b>Suitable Extinguishing Media</b>                          | Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Protective Equipment And Precautions For Firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  |
| <b>Hazardous combustion products</b>                         | Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating.  |
| <b>Specific Hazards Arising From The Chemical</b>            | Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors. |
| <b>Sensitivity To Mechanical Impact</b>                      | No  |
| <b>Sensitivity To Static Discharge</b>                       | Yes   |
| <b>Flash Point Data</b>                                      |   |
| Flash Point (°F)   | 80  |
| Flash Point (°C)   | 27  |
| Method   | PMCC  |
| <b>Flammability Limits In Air</b>                            |   |
| Lower flammability limit:                                    | Not available   |
| Upper flammability limit:                                    | Not available   |
| <b>NFPA</b>  | <b>Health: 2</b> <b>Flammability: 3</b> <b>Instability: 0</b> <b>Special: Not Applicable</b>  |

**NFPA Legend**

- 0 - Not Hazardous
- 1 - Slightly
- 2 - Moderate
- 3 - High
- 4 - Severe

*The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.*

*Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at [www.nfpa.org](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Other Information**

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods for Cleaning Up**

Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Handling**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.

**Incompatible Materials**

Incompatible with strong acids and bases and strong oxidizing agents.

**Technical measures/Precautions**

Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking

and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

| Chemical name                     | ACGIH TLV                       | OSHA PEL                                     |
|-----------------------------------|---------------------------------|--|
| Silica, crystalline               | 0.025 mg/m <sup>3</sup> - TWA   | -  |
| Titanium dioxide                  | 10 mg/m <sup>3</sup> - TWA      | 15 mg/m <sup>3</sup> - TWA                   |
| Xylene                            | 100 ppm - TWA<br>150 ppm - STEL | 100 ppm - TWA<br>435 mg/m <sup>3</sup> - TWA |
| Talc                              | 2 mg/m <sup>3</sup> - TWA       | 20 mppcf - TWA                               |
| Propylene glycol monomethyl ether | 50 ppm - TWA<br>100 ppm - STEL  | N/E  |
| Ethyl benzene                     | 20 ppm - TWA                    | 100 ppm - TWA<br>435 mg/m <sup>3</sup> - TWA |

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

### Appropriate engineering controls

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

#### Eye/Face Protection

Safety glasses with side-shields.

#### Skin Protection

Long sleeved clothing. Protective gloves.

#### Respiratory Protection

Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors.

#### Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

liquid

#### Odor

solvent

#### Odor Threshold

No information available

#### Density (lbs/gal)

11.75 - 11.85

#### Specific Gravity

1.40 - 1.43

#### pH

No information available

#### Viscosity (cps)

No information available

#### Solubility(ies)

No information available

#### Water solubility

No information available

#### Evaporation Rate

No information available

#### Vapor pressure @20 °C (kPa)

No information available

#### Vapor density

No information available

#### Wt. % Solids

80 - 90

|                                |                          |
|--------------------------------|--------------------------|
| Vol. % Solids                  | 70 - 80                  |
| Wt. % Volatiles                | 10 - 20                  |
| Vol. % Volatiles               | 20 - 30                  |
| VOC Regulatory Limit (g/L)     | <250                     |
| Boiling Point (°F)             | 248                      |
| Boiling Point (°C)             | 120                      |
| Freezing Point (°F)            | No information available |
| Freezing Point (°C)            | No information available |
| Flash Point (°F)               | 80                       |
| Flash Point (°C)               | 27                       |
| Method                         | PMCC                     |
| Flammability (solid, gas)      | Not applicable           |
| Upper flammability limit:      | No information available |
| Lower flammability limit:      | No information available |
| Autoignition Temperature (°F)  | No information available |
| Autoignition Temperature (°C)  | No information available |
| Decomposition Temperature (°F) | No information available |
| Decomposition Temperature (°C) | No information available |
| Partition coefficient          | No information available |

## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Reactivity</b>                         | No data available   |
| <b>Chemical Stability</b>                 | Stable under normal conditions. Hazardous polymerisation does not occur.  |
| <b>Conditions to avoid</b>                | Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature. |
| <b>Incompatible Materials</b>             | Incompatible with strong acids and bases and strong oxidizing agents.   |
| <b>Hazardous Decomposition Products</b>   | Thermal decomposition can lead to release of irritating gases and vapors.   |
| <b>Possibility of hazardous reactions</b> | None under normal conditions of use.  |

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

#### Acute Toxicity

**Product Information** Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                 |  |
|---------------------------------|--|
| <b>Eye contact</b>              | Contact with eyes may cause irritation.  |
| <b>Skin contact</b>             | May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.   |
| <b>Ingestion</b>                | Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death. |
| <b>Inhalation</b>               | Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.                             |
| <b>Sensitization</b>            | Respiratory sensitizer<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled<br>May cause an allergic skin reaction   |
| <b>Neurological Effects</b>     | No information available.  |
| <b>Mutagenic Effects</b>        | No information available.  |
| <b>Reproductive Effects</b>     | Possible risk of impaired fertility. Possible risk of harm to the unborn child.  |
| <b>Developmental Effects</b>    | No information available.  |
| <b>Target organ effects</b>     | No information available.  |
| <b>STOT - repeated exposure</b> | Causes damage to organs through prolonged or repeated exposure if inhaled. Central nervous system. Causes damage to organs through prolonged or repeated exposure.   |
| <b>STOT - single exposure</b>   | May cause disorder and damage to the. Respiratory system.  |
| <b>Other adverse effects</b>    | No information available.  |
| <b>Aspiration Hazard</b>        | May be harmful if swallowed and enters airways. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.                           |

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |             |
|--------------------------------------|-------------|
| <b>ATEmix (oral)</b>                 | 2098 mg/kg  |
| <b>ATEmix (dermal)</b>               | 4039 mg/kg  |
| <b>ATEmix (inhalation-dust/mist)</b> | 8.5 mg/L    |
| <b>ATEmix (inhalation-vapor)</b>     | 1281.9 mg/L |

**Acute Toxicity**

**Component Information**

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat)

Benzyl alcohol

LD50 Oral: 1230-1660 mg/kg (Rat)

LD50 Dermal: 2,000 mg/kg (Rabbit)

LC50 Inhalation (Vapor): > 5,000 mg/m<sup>3</sup> (Rat)

Titanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

Xylene

LD50 Oral: 4300 mg/kg (Rat)



LD50 Dermal: > 1700 mg/kg (Rabbit)  
 LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

Propylene glycol monomethyl ether

LD50 Oral: 6,600 mg/kg (Rat)  
 LD50 Dermal: 13,000 mg/kg (Rabbit)  
 LC50 Inhalation (Vapor): 10,000 ppm (Rat)

Ethyl benzene

LD50 Oral: mg/kg (Rat)  
 LD50 Dermal: > mg/kg (Rabbit)  
 LC50 Inhalation (Vapor): mg/m<sup>3</sup> (Rat, 2 hr.)

Triethylenetetramine

LD50 Oral: 2500 mg/kg (Rat)  
 LD50 Dermal: 805 mg/kg (Rabbit)  
 Solvent naphtha, petroleum, light aromatic

LD50 Oral: 8400 mg/kg (Rat)

Phenol, 2,4,6-tris[(dimethylamino)methyl]-

LD50 Oral: 1200 mg/kg (Rat)  
 LD50 Dermal: 1280 mg/kg (Rat)

**Carcinogenicity**

*The information below indicates whether each agency has listed any ingredient as a carcinogen:*

| Chemical name       | IARC                           | NTP                    | OSHA   |
|---------------------|--------------------------------|------------------------|--------|
| Silica, crystalline | 1 - Human Carcinogen           | Known Human Carcinogen | Listed |
| Titanium dioxide    | 2B - Possible Human Carcinogen |                        | Listed |
| Ethyl benzene       | 2B - Possible Human Carcinogen |                        | Listed |

- Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

**Legend**

IARC - International Agency for Research on Cancer  
 NTP - National Toxicity Program  
 OSHA - Occupational Safety & Health Administration

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects**

The environmental impact of this product has not been fully investigated.

**Product Information**

**Acute Toxicity to Fish**

No information available

**Acute Toxicity to Aquatic Invertebrates**

No information available

**Acute Toxicity to Aquatic Plants**

No information available

**Persistence / Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in Environmental Media**

No information available.

**Ozone**

Not applicable

**Component Information****Acute Toxicity to Fish**Titanium dioxide

LC50: &gt; 1000 mg/L (Fathead Minnow - 96 hr.)

Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

**Acute Toxicity to Aquatic Plants**Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

**Empty Container Warning**

Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

**14. TRANSPORT INFORMATION****DOT**

|                             |        |
|-----------------------------|--------|
| <b>Proper Shipping Name</b> | PAINT  |
| <b>Hazard class</b>         | 3      |
| <b>UN-No.</b>               | UN1263 |
| <b>Packing Group</b>        | III    |

**Description** UN1263, PAINT, 3, III

**ICAO / IATA** Contact the preparer for further information.

**IMDG / IMO** Contact the preparer for further information.

## 15. REGULATORY INFORMATION

### International Inventories

**TSCA: United States** Yes - All components are listed or exempt.

**DSL: Canada** Yes - All components are listed or exempt.

### Federal Regulations

#### SARA 311/312 hazardous categorization

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>CERCLA/SARA 313<br/>(de minimis concentration)</u> |
|----------------------|----------------|-----------------|---|
| Zinc phosphate       | 7779-90-0      | 20              | 1.0   |
| Xylene               | 1330-20-7      | 10              | 1.0   |
| Ethyl benzene        | 100-41-4       | 5               | 0.1   |

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

| <u>Chemical name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>Hazardous Air Pollutant<br/>(HAP)</u> |
|----------------------|----------------|-----------------|--|
| Xylene               | 1330-20-7      | 10              | Listed                                   |
| Ethyl benzene        | 100-41-4       | 5               | Listed                                   |

### US State Regulations

#### California Proposition 65



**WARNING:** Cancer and Reproductive Harm— [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

#### State Right-to-Know

| Chemical name | Massachusetts | New Jersey | Pennsylvania |
|---------------|---------------|------------|--------------|
|               |               |            |              |



supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**END OF SAFETY DATA SHEET**