



# MATERIAL SAFETY DATA SHEET

Page 1 of 4

## Sika Armatec 110 - Part A

### HMIS

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	C

### 1. Product And Company Identification

#### Supplier

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Manufacturer

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

#### Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

Issue Date: 03/08/2005

Product Name: Sika Armatec 110 - Part A  
Chemical Family: Epoxy Compound  
Chemical Formula: RMF-1681  
MSDS Number: 3499  
Product Code: 018213N

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
EPOXY RESIN	25068-38-6	
O-CRESYL GLYCIDYL ETHER	2210-79-9	

### 3. Hazards Identification

#### Eye Hazards

Causes eye irritation.

#### Skin Hazards

May cause skin irritation. Prolonged and/or repeated contact with skin may cause an allergic reaction/sensitization.

#### Ingestion Hazards

May be fatal if swallowed.

#### Inhalation Hazards

May cause respiratory tract irritation.

## Sika Armatec 110 - Part A

### 4. First Aid Measures

#### Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

#### Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

#### Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Dilute with water. Get medical attention immediately.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration, seek medical attention.

### 5. Fire Fighting Measures

**Flash Point:** >220 °F

**Autoignition Point:** N/A °F

#### Fire And Explosion Hazards

None Known.

#### Extinguishing Media

In case of fire, use water spray (fog) foam, dry chemical, or CO2.

#### Fire Fighting Instructions

In the event of a fire, firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

### 6. Accidental Release Measures

Avoid release to the environment. Use appropriate Personal Protective Equipment (PPE). Contain spill and collect with absorbent material and transfer into suitable containers. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

### 7. Handling And Storage

#### Handling And Storage Precautions

Keep out of reach of children. Store in a cool dry area. Keep from freezing. Keep containers tightly closed.

#### Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Use with adequate general and local exhaust ventilation. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

#### Eye/Face Protection

Safety glasses with side shields or goggles recommended.

#### Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure. Launder before reuse.

#### Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use.

## Sika Armatec 110 - Part A

<p><b>8. Exposure Controls/Personal Protection - Continued</b></p> <p><b>Other/General Protection</b> Wash thoroughly after handling.</p>
<p><b>9. Physical And Chemical Properties</b></p> <p><b>Appearance</b> Milky, white liquid</p> <p><b>Odor</b> Mild</p> <p><b>Chemical Type:</b> Mixture  <b>Melting Point:</b> N/A °F  <b>Boiling Point:</b> N/A °F  <b>Specific Gravity:</b> 1.09  <b>Percent Volatiles:</b> 38%, wt.  <b>Packing Density:</b> 9.13  <b>Vapor Pressure:</b> N/A  <b>Vapor Density:</b> &gt;AIR  <b>Solubility:</b> Miscible  <b>Evaporation Rate:</b> Slower than ether</p>
<p><b>10. Stability And Reactivity</b></p> <p><b>Stability:</b> Stable  <b>Hazardous Polymerization:</b> Will not occur</p> <p><b>Conditions To Avoid (Stability)</b> None known</p> <p><b>Incompatible Materials</b> None known</p> <p><b>Hazardous Decomposition Products</b> Oxides of Nitrogen, CO, CO2</p>
<p><b>11. Toxicological Information</b></p> <p>No Data Available...</p>
<p><b>12. Ecological Information</b></p> <p>No Data Available...</p>
<p><b>13. Disposal Considerations</b></p> <p>Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.</p>
<p><b>14. Transport Information</b></p> <p><b>Proper Shipping Name</b> Not regulated by the USDOT.</p>
<p><b>15. Regulatory Information</b></p> <p><b>U.S. Regulatory Information</b> All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.</p>

# MATERIAL SAFETY DATA SHEET

Page 4 of 4

## Sika Armatec 110 - Part A

### 15. Regulatory Information - Continued

#### U.S. Regulatory Information - Continued

#### SARA Hazard Classes

Acute Health Hazard

### 16. Other Information

#### HMIS Rating

Health: 2

Fire: 1

Reactivity: 0

PPE: C

#### Revision/Preparer Information

MSDS Preparer: EHS Department

MSDS Preparer Phone Number: 201-933-8800

#### Disclaimer

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

SIKA CORPORATION



# MATERIAL SAFETY DATA SHEET

Page 1 of 4

## Sika Armatec 110 - Part B

### HMIS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	D

### 1. Product And Company Identification

#### Supplier

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Manufacturer

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

#### Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

Issue Date: 03/03/2005

Product Name: Sika Armatec 110 - Part B  
Chemical Family: Modified Aliphatic Amine  
MSDS Number: 3484  
Product Code: 018214N

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
PROPIATERY BLEND OF ALIPHATIC & CYCLOALIPHATIC AMINES	Mixture	

### 3. Hazards Identification

#### Eye Hazards

Causes eye irritation.

#### Skin Hazards

Causes skin irritation. Prolonged and/or repeated skin contact may cause an allergic reaction/sensitization.

#### Ingestion Hazards

Harmful if swallowed.

#### Inhalation Hazards

May cause respiratory tract irritation.

### 4. First Aid Measures

#### Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

## Sika Armatec 110 - Part B

### 4. First Aid Measures - Continued

#### Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

#### Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Dilute with water.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Consult with a Physician.

### 5. Fire Fighting Measures

**Flash Point:** 150 °F 67 °C

**Flash Point Method:** DIN 51758

**Autoignition Point:** 510 °C

#### Fire And Explosion Hazards

Exposure to heat builds up pressure in closed containers.

#### Extinguishing Media

In case of fire, use water spray (fog) foam, dry chemical, or CO<sub>2</sub>.

#### Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

### 6. Accidental Release Measures

Avoid release to the environment. Use appropriate Personal Protective Equipment (PPE). Contain spill and collect with absorbent material and transfer into suitable containers. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

### 7. Handling And Storage

#### Handling And Storage Precautions

Keep out of reach of children. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

#### Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Use with adequate general and local exhaust ventilation. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

#### Eye/Face Protection

Faceshield over safety glasses or goggles.

#### Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure. Launder before reuse.

#### Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use.

#### Other/General Protection

Wash thoroughly after handling.

# MATERIAL SAFETY DATA SHEET

Page 3 of 4

## Sika Armatec 110 - Part B

<b>9. Physical And Chemical Properties</b>
<b>Appearance</b> Liquid
<b>Odor</b> Amine
<b>Chemical Type:</b> Mixture <b>Specific Gravity:</b> 1.03 <b>Vapor Density:</b> >Air <b>pH Factor:</b> 10 <b>Solubility:</b> Soluble <b>Evaporation Rate:</b> Slower than ether
<b>10. Stability And Reactivity</b>
<b>Stability:</b> Stable <b>Hazardous Polymerization:</b> Will not occur
<b>Incompatible Materials</b> Strong oxidizing materials, acids, and bases.
<b>Hazardous Decomposition Products</b> CO, CO <sub>2</sub> , Oxides of Nitrogen
<b>11. Toxicological Information</b>
No Data Available...
<b>12. Ecological Information</b>
No Data Available...
<b>13. Disposal Considerations</b>
Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
<b>14. Transport Information</b>
<b>Proper Shipping Name</b> Not regulated by the USDOT.
<b>15. Regulatory Information</b>
<b>U.S. Regulatory Information</b> All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
<b>SARA Hazard Classes</b> Acute Health Hazard
<b>16. Other Information</b>
<b>HMIS Rating</b> <b>Health:</b> 3 <b>Fire:</b> 1 <b>Reactivity:</b> 0 <b>PPE:</b> D

# MATERIAL SAFETY DATA SHEET

Page 4 of 4

## Sika Armatec 110 - Part B

### 16. Other Information - Continued

#### HMIS Rating - Continued

#### Revision/Preparer Information

**MSDS Preparer:** EHS Department

**MSDS Preparer Phone Number:** 201-933-8800

#### **Disclaimer**

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

SIKA CORPORATION



# MATERIAL SAFETY DATA SHEET

Page 1 of 5

## Sika Armatec 110 - Part C

### HMIS

HEALTH	*2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

### 1. Product And Company Identification

#### Supplier

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Manufacturer

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

#### Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

Issue Date: 03/03/2005

Product Name: Sika Armatec 110 - Part C  
Chemical Family: Cementitious Mortar  
Chemical Formula: RMF-1609  
MSDS Number: 3485  
Product Code: 018219N

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
CEMENT, PORTLAND	65997-15-1	30 - 35
SILICA, QUARTZ	14808-60-7	60 - 65
SODIUM NITRITE	7632-00-0	1 - 5

### 3. Hazards Identification

#### Eye Hazards

May cause eye irritation.

#### Skin Hazards

May cause skin irritation.

#### Ingestion Hazards

May be harmful if swallowed.

#### Inhalation Hazards

May cause respiratory tract irritation. Breathing dust may cause nose, throat or lung irritation. Respirable crystalline silica can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive.

## Sika Armatec 110 - Part C

### 4. First Aid Measures

#### Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

#### Skin

In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

#### Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration, seek medical attention.

### 5. Fire Fighting Measures

**Flash Point:** N/A °F

**Autoignition Point:** N/A °F

#### Fire And Explosion Hazards

None Known

#### Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire.

#### Fire Fighting Instructions

In the event of a fire, firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode.

### 6. Accidental Release Measures

Avoid release to the environment. Using appropriate personal protective equipment (PPE), shovel material into waste containers taking care to minimize dust. Dampen if necessary to control dust. Vacuum clean dust with equipment fitted with High Efficiency Particulate Air (HEPA) filters.

### 7. Handling And Storage

#### Handling And Storage Precautions

Keep out of reach of children. Store in a cool, dry, well ventilated area. Keep containers tightly closed.

#### Work/Hygienic Practices

Wash thoroughly with soap and water after handling.

### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Use of a system of local and/or general exhaust is recommended to keep employee below applicable exposure limits. Refer to the current edition of "Industrial Ventilation: A Manual of Recommended Practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

#### Eye/Face Protection

Safety glasses with side shields or goggles.

#### Skin Protection

Chemical-resistant gloves. Lab coat or other work clothing to prevent skin exposure. Launder before reuse.

#### Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use. In areas where the Permissible Exposure Limits are exceeded, use a properly fitted NIOSH-approved respirator.

## Sika Armatec 110 - Part C

### 8. Exposure Controls/Personal Protection - Continued

#### Other/General Protection

Wash thoroughly after handling.

#### Ingredient(s) - Exposure Limits

CEMENT, PORTLAND

ACGIH TLV-TWA - 10 mg/m3

OSHA PEL -TWA - 15 mg/m3 (total dust)

OSHA PEL - TWA - 5 mg/m3 (respirable dust)

SILICA, QUARTZ

ACGIH TLV-TWA 0.1 mg/m3 (Notice of Intended Change)

ACGIH TLV-TWA 0.05 mg/m3 (Proposed)

OSHA PEL-TWA 30/%SiO<sub>2</sub>+2 mg/m3

OSHA PEL-TWA 10/%SiO<sub>2</sub>+2 mg/m3

OSHA PEL-TWA 250/%SiO+5 mppcf

### 9. Physical And Chemical Properties

#### Appearance

Solid/Sand

#### Odor

Cement

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** N/A °F

**Specific Gravity:** 2.70

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**pH Factor:** 11

**Solubility:** N/A

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

None Known

#### Incompatible Materials

None Known

#### Hazardous Decomposition Products

None Known

### 11. Toxicological Information

#### Ingredient(s) - Carcinogenicity

SILICA, QUARTZ

NTP - Listed On The National Toxicology Program

Listed In The IARC Monographs

### 12. Ecological Information

No Data Available...

## Sika Armatec 110 - Part C

### 13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport Information

#### Proper Shipping Name

Not regulated by the USDOT.

### 15. Regulatory Information

#### U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

#### SARA Hazard Classes

Acute Health Hazard  
Chronic Health Hazard

#### SARA Title III - Section 313 Supplier Notification

This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

SODIUM NITRITE (7632-00-0) 1 - 5 %

This information must be included on all MSDSs that are copied and distributed for this material.

#### Ingredient(s) - U.S. Regulatory Information

SODIUM NITRITE  
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

#### State Regulations

WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

#### Ingredient(s) - State Regulations

SILICA, QUARTZ  
New Jersey - Workplace Hazard  
Pennsylvania - Workplace Hazard  
California - Proposition 65  
Massachusetts - Hazardous Substance  
SODIUM NITRITE  
New Jersey - Workplace Hazard  
New Jersey - Environmental Hazard  
Pennsylvania - Workplace Hazard  
Pennsylvania - Environmental Hazard  
New York City - Hazardous Substance

### 16. Other Information

#### HMIS Rating

Health: \*2

Fire: 0

Reactivity: 0

PPE: C

# MATERIAL SAFETY DATA SHEET

Page 5 of 5

## Sika Armatec 110 - Part C

### 16. Other Information - Continued

#### Revision/Preparer Information

**MSDS Preparer:** EHS Department

**MSDS Preparer Phone Number:** 201-933-8800

#### **Disclaimer**

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

SIKA CORPORATION