

**1. Identification**

Product name : Sika Armatec®-110 EpoCem® Part C

Supplier : Sika Corporation

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Recommended use of the chemical and restrictions on use : For further information, refer to the product technical data sheet.

**2. Hazards identification****GHS Classification**

|                                                                                            |                                         |
|--------------------------------------------------------------------------------------------|-----------------------------------------|
| Skin irritation , Category 2                                                               | H315: Causes skin irritation.           |
| Serious eye damage , Category 1                                                            | H318: Causes serious eye damage.        |
| Carcinogenicity , Category 1A                                                              | H350: May cause cancer.                 |
| Specific target organ systemic toxicity - single exposure , Category 3, Respiratory system | H335: May cause respiratory irritation. |

**GHS Label element**

Hazard pictograms :   

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H350 May cause cancer.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection/ face protection.



P280 Wear protective gloves.

P281 Use personal protective equipment as required.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P310 Immediately call a POISON CENTER or doctor/physician.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.

### 3. Composition/information on ingredients

#### Hazardous ingredients

| Chemical Name                   | CAS-No.    | Concentration (%) |
|---------------------------------|------------|-------------------|
| Quartz (SiO <sub>2</sub> )      | 14808-60-7 | >= 50 - <= 100 %  |
| Portland cement                 | 65997-15-1 | >= 25 - < 50 %    |
| sodium nitrite                  | 7632-00-0  | >= 1 - < 2 %      |
| Quartz (SiO <sub>2</sub> ) <5µm | 14808-60-7 | >= 0 - < 1 %      |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

- |                         |                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : Move to fresh air.<br>Consult a physician after significant exposure.                                                                                   |
| In case of skin contact | : Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician.              |
| In case of eye contact  | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty |



|                                                             |                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | <p>of water and seek medical advice.<br/>Continue rinsing eyes during transport to hospital.<br/>Remove contact lenses.<br/>Keep eye wide open while rinsing.</p>                                                                                               |
| If swallowed                                                | <p>: Clean mouth with water and drink afterwards plenty of water.<br/>Induce vomiting immediately and call a physician.<br/>Do NOT induce vomiting.<br/>Do not give milk or alcoholic beverages.<br/>Never give anything by mouth to an unconscious person.</p> |
| Most important symptoms and effects, both acute and delayed | <p>: irritant effects<br/>carcinogenic effects</p> <p>Cough<br/>Respiratory disorder<br/>Excessive lachrymation<br/>Erythema<br/>Dermatitis<br/>See Section 11 for more detailed information on health effects and symptoms.</p>                                |
| Protection of first-aiders                                  | <p>: Move out of dangerous area.<br/>Consult a physician.<br/>Show this material safety data sheet to the doctor in attendance.</p>                                                                                                                             |
| Notes to physician                                          | <p>: Treat symptomatically.</p>                                                                                                                                                                                                                                 |

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**5. Fire-fighting measures**

|                                                |                                                                                                                                                                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                                                                                 |
| Specific extinguishing methods                 | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.                                                                                                                                                          |

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**6. Accidental release measures**

|                                                                     |                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Avoid breathing dust.<br>Deny access to unprotected persons.                                                                                                                                      |
| Environmental precautions                                           | : Do not flush into surface water or sanitary sewer system.<br>If the product contaminates rivers and lakes or drains inform respective authorities.<br>Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for                                           | : Pick up and arrange disposal without creating dust.                                                                                                                                                                                     |



containment and cleaning up

Keep in suitable, closed containers for disposal.

**7. Handling and storage**

- Advice on safe handling : Do not breathe vapors/dust.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products.
- Conditions for safe storage : Prevent unauthorized access.  
Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.
- Materials to avoid : no data available

**8. Exposure controls/personal protection**

| Component                  | CAS-No.    | Basis ** | Value | Exposure limit(s)* / Form of exposure                    |
|----------------------------|------------|----------|-------|----------------------------------------------------------|
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | ACGIH    | TWA   | 0.025 mg/m <sup>3</sup><br>Respirable fraction           |
|                            |            | OSHA Z-3 | TWA   | 30 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2<br>total dust |
|                            |            | OSHA Z-3 | TWA   | 10 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2<br>respirable |
|                            |            | OSHA Z-3 | TWA   | 250 mppcf/%SiO <sub>2</sub> +5<br>respirable             |
|                            |            | OSHA P0  | TWA   | 0.1 mg/m <sup>3</sup><br>Respirable fraction             |
| Portland cement            | 65997-15-1 | ACGIH    | TWA   | 1 mg/m <sup>3</sup><br>Respirable fraction               |
|                            |            | OSHA P0  | TWA   | 10 mg/m <sup>3</sup><br>Total                            |
|                            |            | OSHA P0  | TWA   | 5 mg/m <sup>3</sup><br>Respirable fraction               |
|                            |            | OSHA Z-1 | TWA   | 15 mg/m <sup>3</sup>                                     |



|                    |            |          |     |                                                |
|--------------------|------------|----------|-----|------------------------------------------------|
|                    |            |          |     | total dust                                     |
|                    |            | OSHA Z-1 | TWA | 5 mg/m3<br>respirable fraction                 |
|                    |            | OSHA Z-3 | TWA | 50 Million particles<br>per cubic foot<br>Dust |
| fumed silica       | 69012-64-2 | OSHA Z-3 | TWA | 20 Million particles<br>per cubic foot<br>Dust |
|                    |            | OSHA Z-3 | TWA | 80 mg/m3 / %SiO2<br>Dust                       |
| Quartz (SiO2) <5µm | 14808-60-7 | ACGIH    | TWA | 0.025 mg/m3<br>Respirable fraction             |
|                    |            | OSHA Z-3 | TWA | 30 mg/m3/%SiO2+2<br>total dust                 |
|                    |            | OSHA Z-3 | TWA | 10 mg/m3/%SiO2+2<br>respirable                 |
|                    |            | OSHA Z-3 | TWA | 250 mppcf/%SiO2+5<br>respirable                |
|                    |            | OSHA P0  | TWA | 0.1 mg/m3<br>Respirable fraction               |

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures**

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**



|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection     | : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.<br><br>The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. |
| Hand protection<br>Remarks | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.                                                                                                                                                                                                                                                      |
| Eye protection             | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.                                                                                                                                                                                                                                                                                                                        |
| Skin and body protection   | : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.                                                                                                                                                                                                                                                                                                     |
| Hygiene measures           | : Avoid contact with skin, eyes and clothing.<br>Wash hands before breaks and immediately after handling the product.<br>Remove contaminated clothing and protective equipment before entering eating areas.<br>Wash thoroughly after handling.<br>Avoid breathing dust.                                                                                                                                                                       |

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**9. Physical and chemical properties**

|                              |                        |
|------------------------------|------------------------|
| Appearance                   | : powder               |
| Color                        | : gray                 |
| Odor                         | : odorless             |
| Odor Threshold               | : no data available    |
| Flash point                  | : Note: not applicable |
| Ignition temperature         | : no data available    |
| Decomposition temperature    | : no data available    |
| Lower explosion limit (Vol%) | : no data available    |
| Upper explosion limit (Vol%) | : no data available    |
| Flammability (solid, gas)    | : no data available    |
| Oxidizing properties         | : no data available    |
| Autoignition temperature     | : no data available    |



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|                                             |   |                                              |
|---------------------------------------------|---|----------------------------------------------|
| pH                                          | : | no data available                            |
| Melting point/range /<br>Freezing point     | : | no data available                            |
| Boiling point/boiling range                 | : | no data available                            |
| Vapor pressure                              | : | no data available                            |
| Density                                     | : | ca.2.7 g/cm <sup>3</sup><br>at 73 °F (23 °C) |
| Water solubility                            | : | Note: insoluble                              |
| Partition coefficient: n-<br>octanol/water  | : | no data available                            |
| Viscosity, dynamic                          | : | no data available                            |
| Viscosity, kinematic                        | : | no data available                            |
| Relative vapor density                      | : | no data available                            |
| Evaporation rate                            | : | no data available                            |
| Burning rate                                | : | no data available                            |
| Volatile organic compounds<br>(VOC) content | : | < 50 g/l<br>A+B+C Combined                   |

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**10. Stability and reactivity**

|                                       |   |                                                             |
|---------------------------------------|---|-------------------------------------------------------------|
| Reactivity                            | : | No dangerous reaction known under conditions of normal use. |
| Chemical stability                    | : | The product is chemically stable.                           |
| Possibility of hazardous<br>reactions | : | Stable under recommended storage conditions.                |
| Conditions to avoid                   | : | no data available                                           |
| Incompatible materials                | : | no data available                                           |

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**11. Toxicological information****Acute toxicity****Product**

|                           |   |                   |
|---------------------------|---|-------------------|
| Acute oral toxicity       | : | no data available |
| Acute inhalation toxicity | : | no data available |
| Acute dermal toxicity     | : | no data available |

**Skin corrosion/irritation**

**Product**

Causes skin irritation.

**Serious eye damage/eye irritation****Product**

Causes serious eye damage.

**Respiratory or skin sensitization****Product**

no data available

**Germ cell mutagenicity****Product**

Mutagenicity : no data available

**Carcinogenicity****Product**

Carcinogenicity : May cause cancer.

**IARC**

Group 1: Carcinogenic to humans

Quartz (SiO<sub>2</sub>) 14808-60-7Quartz (SiO<sub>2</sub>) <5µm 14808-60-7

Group 2A: Probably carcinogenic to humans

sodium nitrite 7632-00-0

**NTP**

Known to be human carcinogen

Quartz (SiO<sub>2</sub>) 14808-60-7Quartz (SiO<sub>2</sub>) <5µm 14808-60-7**Reproductive Toxicity/Fertility****Product**

Reproductive toxicity : no data available

**Reproductive Toxicity/Development/Teratogenicity****Product**

Teratogenicity : no data available

**STOT-single exposure****Product**

Assessment: May cause respiratory irritation.

**STOT-repeated exposure**

Prolonged exposure can cause silicosis.

**Product**

Assessment: no data available



#### Aspiration toxicity

##### Product

no data available

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#### 12. Ecological information

##### Other information

Do not empty into drains; dispose of this material and its container in a safe way.

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#### 13. Disposal considerations

##### Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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#### 14. Transport information

##### DOT

Not dangerous goods

##### IATA

Not dangerous goods

##### IMDG

Not dangerous goods

##### Special precautions for user

no data available

##### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

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#### 15. Regulatory information

**TSCA list** : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

##### EPCRA - Emergency Planning and Community Right-to-Know

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
sodium nitrite 7632-00-0 1.00 %

**Clean Air Act**

**Ozone-Depletion Potential** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**California Prop 65** WARNING! This product contains a chemical known in the State of California to cause cancer.  
WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

**16. Other information****HMIS Classification**

|                     |   |   |
|---------------------|---|---|
| Health              | * | 3 |
| Flammability        |   | 0 |
| Physical Hazard     |   | 0 |
| Personal Protection |   | X |

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the



National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

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**Notes to Reader**

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