### Section 1: Product Identification

**Product Name:** Akona Concrete Repair

**Product Type:** Sealant

### Section 2: Hazard Identification

#### GHS Classification

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

- **Serious eye damage/eye irritation:** Category 2
- **Acute toxicity (oral):** Category 4
- **Specific target organ toxicity (repeated exposure):** Category 2

**Emergency Overview:** Signal word - Warning

**Hazard Statements:** Causes serious eye irritation; Harmful if swallowed; May cause damage to organs through prolonged or repeated exposure

**Appearance:** Varies

**Physical State:** Paste Liquid

**Odor:** Latex

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling; Wear eye/face protection; Do not eat, drink or smoke when using this product; Do not breathe dust/fume/gas/mist/vapors/spray
Precautionary Statements - Response
Get medical advice/attention if you feel unwell

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

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell; Rinse mouth

Precautionary Statements - Storage
None

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
29.46% of the mixture consists of ingredient(s) of unknown toxicity

Other information
No information available

Interactions with Other Chemicals
Use of alcoholic beverages may enhance toxic effects

Section 3: Hazardous Ingredients/Composition

Substance: Mixture
Chemical Nature: Latex

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>*Wt %</th>
<th>Component Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1</td>
<td>30 - 60</td>
<td>Calcium Carbonate</td>
</tr>
<tr>
<td>Proprietary</td>
<td>20 - 30</td>
<td>Aqueous emulsion copolymer of styrene and acrylic ester</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>10 - 30</td>
<td>Quartz</td>
</tr>
<tr>
<td>107-21-1</td>
<td>1 - 5</td>
<td>Ethylene Glycol</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.
Section 4: First Aid Measures

General Advice: Show this safety data sheet to the doctor in attendance.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

Skin Contact
Wash with soap and water.

Inhalation
Remove to fresh air.

Ingestion
Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Most important symptoms and effects, both acute and delayed
Burning sensation

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically

Section 5: Fire Fighting Measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
No information available

Hazardous Combustion Products
Carbon oxides
Explosion Data
Sensitivity to Mechanical Impact: No
Sensitivity to Static Discharge: No

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Ensure adequate ventilation. Evacuate personnel to safe areas.

Other Information
Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers

Section 7: Handling and Storage

Precautions for safe handling

Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities
Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible Products
None known based on information supplied

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate (CAS# 471-34-1)</td>
<td>TWA: 15 mg/m3 TWA: 5 mg/m3 (vacated) TWA: 15 mg/m3 (vacated) TWA: 5 mg/m3</td>
<td>TWA: 5 mg/m3 respirable dust TWA: 10 mg/m3 total dust</td>
<td>TWA: 5 mg/m3 respirable dust TWA: 10 mg/m3 total dust</td>
</tr>
<tr>
<td>Quartz (CAS# 14808-60-7)</td>
<td>TWA: 0.025 mg/m3 respirable fraction</td>
<td>TWA: 0.1 mg/m3 (vacated)</td>
<td>IDLH: 50 mg/m3 respirable dust TWA: 0.05 mg/m3 respirable dust</td>
</tr>
<tr>
<td>Ethylene Glycol (CAS# 107-21-1)</td>
<td>Ceiling: 100 mg/m3 aerosol only</td>
<td>(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m3</td>
<td>(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m3</td>
</tr>
</tbody>
</table>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

Skin and Body Protection
Wear protective gloves and protective clothing.
Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form:</td>
<td>Paste, Liquid</td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Varies</td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Latex</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Varies</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>UNKNOWN</td>
<td>None known</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (g/L)</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
Section 10: Stability and Reactivity

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None known based on information supplied.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

Section 11: Toxicological Information

Information on likely routes of exposure

Product Information

Inhalation:
Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye Contact:
Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation

Skin Contact:
Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion:
Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed (based on components).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>6450 mg/kg (Rat)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>(CAS# 471-34-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz</td>
<td>500 mg/kg (Rat)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>(CAS# 14808-60-7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>4000 mg/kg (Rat)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>(CAS# 107-21-1)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Information on toxicological effects**

**Symptoms:**
May cause redness and tearing of the eyes

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

**Sensitization:**
No information available.

**Mutagenic Effects:**
No information available.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>(CAS# 14808-60-7)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OSHA (Occupational Safety and Health Administration of the USE Department of Labor)**
X = Present

**NTP (National Toxicology Program)**
Known = Known Carcinogen

**IARC (International Agency for Research on Cancer)**
Group 1 = Carcinogenic to humans

**ACGIH (American Conference of Governmental Industrial Hygienists)**
A2 = Suspected Human Carcinogen

**Reproductive Toxicity**
No information available.
STOT - single exposure
No information available.

STOT - repeated exposure
Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

Chronic Toxicity
Avoid repeated exposure. Prolonged exposure may cause chronic effects. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

Target Organ Effects

Aspiration Hazard
No information available.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) = 1,688.00 mg/kg

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol 107-21-1</td>
<td>96h EC50: 6500 - 13000 mg/L (Pseudokirchneriella subcapitata)</td>
<td>96h LC50: = 41000 mg/L (Oncorhynchus mykiss) 96h LC50: 14 - 18 mL/L (Oncorhynchus mykiss) 96h LC50: = 40761 mg/L</td>
<td>EC50 = 10000 mg/L 16 h</td>
<td>48h EC50: = 46300 mg/L</td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

Ecotoxicity
The environmental impact of this product has not been fully investigated.
Persistence and Degradability
No information available.

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
</tr>
<tr>
<td></td>
<td>-1.93</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available.

Section 13: Disposal Considerations

Waste treatment methods

Disposal methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

Section 14: Transportation

<table>
<thead>
<tr>
<th>DOT</th>
<th>TDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT REGULATED</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>
Section 15: Regulatory Information

**International Inventories**

**TSCA**
Complies

**DSL**
All components are listed either on the DSL or NDSL

**TSCA**
United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL**
Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 – Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>1 – 5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**

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

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol 107-21-1</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

**US State Regulations**

**California Proposition 65**
None reportable

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate 471-34-1</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz 14808-60-7</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol 107-21-1</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

**International Regulations**

**Mexico**

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate 471-34-1 ( 30 - 60 )</td>
<td></td>
<td>Mexico: TWA 10 mg/m3 Mexico: STEL 20 mg/m3</td>
</tr>
<tr>
<td>Quartz 14808-60-7 ( 10 - 30 )</td>
<td></td>
<td>Mexico: TWA= 0.1 mg/m3</td>
</tr>
<tr>
<td>Ethylene glycol 107-21-1 ( 1 - 5 )</td>
<td></td>
<td>Mexico: Ceiling 100 mg/m3</td>
</tr>
</tbody>
</table>

Mexico – Occupational Exposure Limits - Carcinogens

**Canada**

WHMIS Hazard Class
D2B - Toxic materials
Section 16: Other Information

NFPA
Health Hazards: 2
Flammability: 0
Instability: 0
Physical/Chemical Haz. –

HMIS
Health Hazards: 2*
Flammability: 0
Physical Hazard: 0
Personal Protection: X
Chronic Hazard Star Legend * = Chronic Health Hazard

Additional information on the products is available at: www.tccmaterials.com

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.