Section 1. Identification

GHS product identifier : CS-102
Other means of identification : Not Available

Relevant identified uses of the substance or mixture and uses advised against

Not available

Supplier’s details : Concrete Sealants, Inc.
9325 St. Rte. 201
Tipp City, Ohio 45371
Tel.: 937-845-8776
Toll-free: 800-332-7325
Fax: 937-845-3587
Email: hello@conseal.com
Website URL: www.conseal.com

Emergency telephone number (with hours of operation) : 937-845-8776 or 800-332-7325 (6am to 5pm EST)

Section 2. Hazards Identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not Classified

GHS label elements

Signal word : No signal word
Hazard statements : No known significant effects or critical hazards.
Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention : Not applicable
Response : Not applicable
Storage : Not applicable
Disposal : Not applicable

Hazards not otherwise classified : None known

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available

CAS number/other identifiers

CAS number : Not applicable
Product code : Not applicable
Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica, quartz</td>
<td>10–30</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1–5</td>
<td>1332-58-7</td>
</tr>
<tr>
<td>Palygorskite</td>
<td>1–5</td>
<td>12174-11-7</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>1–5</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Hydrogen sulphide</td>
<td>0–0.1</td>
<td>7783-06-4</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- **Eye contact**: Not a likely route of exposure.
- **Inhalation**: Not a likely route of exposure.
- **Skin contact**: No first aid should be needed.
- **Ingestion**: Wash mouth out with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

- **Potential acute health effects**
  - **Eye contact**: No known significant effects or critical hazards.
  - **Inhalation**: No known significant effects or critical hazards.
  - **Skin contact**: No known significant effects or critical hazards.
  - **Ingestion**: No known significant effects or critical hazards.

- **Over-exposure signs/symptoms**
  - **Eye contact**: No known significant effects or critical hazards.
  - **Inhalation**: No known significant effects or critical hazards.
  - **Skin contact**: No known significant effects or critical hazards.
  - **Ingestion**: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

- **Notes to physician**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

Protection of first-aiders

Section 5. Firefighting measures

Extinguishing media

- **Suitable extinguishing media**: Carbon dioxide, dry chemical, foam and water fog spray.
- **Unsuitable extinguishing media**: None known

Specific hazards arising from the chemical

- No specific fire or explosion hazard.
Section 5. Firefighting measures

Hazardous thermal decomposition products: Decomposition materials may include the following materials:
- carbon dioxide
- carbon monoxide

Special protective actions for firefighters: No special measures are required.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
- For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment.
- For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel.”
- Environmental precautions: None require if used according to recommended conditions.
- Methods and materials for contaminant and cleaning up
  - Spill: Not applicable

Section 7. Handling and storage

Precautions for safe handling
- Protective measures: Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and faces before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store away from direct sunlight in a cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers.

Section 8. Exposure Controls / Personal Protection

Control parameters

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica, quartz</td>
<td>OSHA PEL Z3 (United States, 2/2013). TWA: 10 MG/M3 / (%SiO2+2) 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td>TWA: 250 MPPCF / (%SiO2+5) 8 hours. Form: Respirable</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (United States, 6/2013). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 4/2013). TWA: 0.05 mg/m³ 10 hours. Form: Respirable dust</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (United States, 3/2012).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>TWA: 10 mg/m³ 10 hours. Form: Total</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m³ 10 hours. Form: Total</td>
</tr>
<tr>
<td></td>
<td>TWA: 2 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 6/2009).</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m³ 10 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ 10 hours. Form: Total</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 6/2010).</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m³ 8 hours. Form: Total dust</td>
</tr>
</tbody>
</table>
Section 8. Exposure Controls / Personal Protection

Titanium dioxide

- OSHA PEL (United States, 6/2010). TWA: 15 mg/m³ 8 hour. Form: Total dust
- OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m³ 8 hours. Form: Total dust
- ACGIH TLV (United States, 3/2012). TWA: 10 mg/m³ 8 hours.

Hydrogen sulphide

- ACGIH TLV (United States, 6/2013). STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours.
- NIOSH REL (United States, 4/2013). CEIL: 15 mg/m³ 10 minutes.
- OSHA PEL Z2 (United States, 2/2013). AMP: 50 ppm 10 minutes. CEIL: 20 ppm

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: 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.

Body protection: Not required under normal use.

Other skin protection: Not required under normal use.

Respiratory protection: Not required under normal use.

Section 9. Physical and Chemical Properties

Appearance

- Physical state: Solid
- Color: Black
- Odor: Petroleum. [Slight]
- Odor threshold: Not available
- pH: Not available
- Melting point: Not available
- Boiling point: Not available
- Flash point: Open cup: 232.22°C (450°F) [Cleveland.]
- Burning time: Not available
- Burning rate: Not available
- Evaporation rate: Not available
- Flammability (solid, gas): Not available

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Section 9. Physical and Chemical Properties

- Lower and upper explosive (flammable) limits: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Relative density: 1.25
- Solubility: Insoluble in the following material: cold water and hot water.
- Solubility in water: 0 g/l
- Partition coefficient n-octanol/water: Not available
- Auto-ignition temperature: Not available
- Decomposition temperature: Not available
- SADT: Not available
- Viscosity: Not available

Section 10. Stability and Reactivity

- Reactivity: No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability: The product is stable.
- Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid: No specific data.
- Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulphide</td>
<td>LC50 Inhalation Gas.</td>
<td>Rat</td>
<td>444 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>700 mg/m³</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>Skin – Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>72 hours 300 µg</td>
<td>Intermittent</td>
</tr>
</tbody>
</table>

Sensitization

- Skin: There is no data available
- Respiratory: There is no data available

Mutagenicity

There is no data available

Carcinogenicity

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica, quartz</td>
<td>-</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
<tr>
<td>Palygorskite</td>
<td>-</td>
<td>2B</td>
<td>-</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>-</td>
<td>2B</td>
<td>-</td>
</tr>
</tbody>
</table>

There is no data available
Section 11. Toxicological Information

Reproductive toxicity
There is no data available

Teratogenicity
There is no data available

Specific target organ toxicity (single exposure)
There is no data available

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica, quartz</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Kidneys, respiratory tract and testes</td>
</tr>
<tr>
<td>Kaolin</td>
<td>Category 2</td>
<td>Inhalation</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Aspiration hazard
There is no data available

Information on the likely routes of exposure

Route of entry anticipated: Oral, Dermal.

Potential acute health effects

Eye contact  : No known significant effects or critical hazards.
Inhalation   : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion    : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact  : No known significant effects or critical hazards.
Inhalation   : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion    : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure
Potential immediate effects : No known significant effects or critical hazards.
Potential delayed effects   : No known significant effects or critical hazards.

Long term exposure
Potential immediate effects : No known significant effects or critical hazards.
Potential delayed effects   : No known significant effects or critical hazards.

Potential chronic health effects

General     : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Section 11. Toxicological Information

Numerical measures of toxicity

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12. Ecological Information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>Acute EC50 5.83 mg/L Fresh water</td>
<td>Algae- Pseudokirchneriella subcapitata</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exponential growth phase</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3 mg/L Fresh water</td>
<td>Crustaceans- Ceriodaphnia d ubia Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 5.5 ppm Fresh water</td>
<td>Daphnia-Daphnia magna-Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000 mg/L Fresh water</td>
<td>Fish- Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.984 mg/L Fresh water</td>
<td>Algae- Pseudokirchneriella subcapitata</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exponential growth phase</td>
<td></td>
</tr>
<tr>
<td>Hydrogen sulphide</td>
<td>Acute EC50 62 µg/l Fresh water</td>
<td>Crustaceans- Gammarus pseudolimnaeus</td>
<td>2 days</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2 µg/l Fresh water</td>
<td>Fish- Coregonus clupeaformis-Yolk-sac fry</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

There is no data available

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>-</td>
<td>352</td>
<td>low</td>
</tr>
</tbody>
</table>

Mobility in soil

<table>
<thead>
<tr>
<th>Soil/water partition coefficient (KOC)</th>
<th>Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>: Not available</td>
<td>: No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Section 13. Disposal Considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport Information

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>
### Section 14. Transport Information

<table>
<thead>
<tr>
<th>UN proper shipping name</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

### Section 15. Regulatory Information

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempt.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not Listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

### SARA 302/304

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>EHS</th>
<th>SARA 302 TPQ (lbs)</th>
<th>SARA 302 TPQ (gallons)</th>
<th>SARA 304 RQ (lbs)</th>
<th>SARA 304 RQ (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulphide</td>
<td>0 – 0.1</td>
<td>Yes.</td>
<td>500</td>
<td>-</td>
<td>100</td>
<td>-</td>
</tr>
</tbody>
</table>

No products were found

SARA 304 RQ: 1394700.1 lbs /633193.9 kg

SARA 311/312

Classification: Not applicable

Composition/information on ingredients
Crystalline silica, quartz  10-30  1-5  1-5  0-0.1
Kaolin
Palygorskite
Titanium dioxide
Hydrogen sulphide

SARA 313

Form R – Reporting requirements
Supplier notification

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts: The following components are listed: Crystalline silica, quartz; Titanium dioxide; Cellulose; Petroleum asphalt.
New York: None of the components are listed.
New Jersey: The following components are listed: Crystalline silica, quartz; Titanium dioxide; Cellulose; Petroleum asphalt; Kaolin.
Pennsylvania: The following components are listed: Crystalline silica, quartz; Titanium dioxide; Cellulose; Petroleum asphalt; Kaolin.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name  Cancer  Reproductive  No significant risk level  Maximum acceptable dosage level

Crystalline silica, quartz  Yes.  No.  No.  No.
Palygorskite  Yes.  No.  No.  No.
Titanium dioxide  Yes.  No.  No.  No.

International regulations

International lists

Australia inventory (AICS): Not determined.
China inventory (IECSC): Not determined.
Japan inventory: Not determined.
Korea inventory: Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals: Not listed
Chemical Weapons Convention List Schedule II Chemicals: Not listed
Chemical Weapons Convention List Schedule III Chemicals: Not listed
### Section 16. Other Information

#### History

<table>
<thead>
<tr>
<th>Date of issue mm/dd/yyyy</th>
<th>06/01/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>1</td>
</tr>
<tr>
<td>Revised sections</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Prepared by</td>
<td>Concrete Sealant Inc.</td>
</tr>
</tbody>
</table>

#### Key to abbreviations

- **ATE** = Acute Toxicity Estimate
- **BCF** = Bioconcentration Factor
- **GHS** = Globally Harmonized System of Classification and Labelling of Chemicals
- **IATA** = International Air Transport Association
- **IBC** = Intermediate Bulk Container
- **IMDG** = International Maritime Dangerous Goods
- **LogPow** = logarithm of the octanol/water partition coefficient
- **MARPOL 73/78** = International Convention for the Prevention of Pollution From Ships
  1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- **UN** = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.