Conforms to HazCom 2012/United States

ConSeal™ Concrete Sealants Inc.

# SAFETY DATA SHEET

**CS-231**

## Section 1. Identification

**GHS product identifier** : CS-231

**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

**Since the product is in paste form, the risk of exposure to a carcinogen dust is minimum, this is why the related hazard statements are not shown in this SDS.**

**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

## Section 3. Composition/information on ingredients

**CAS number/other identifiers**

**CAS number** : Not applicable

**Product code** : Not available

| Ingredient name | % | CAS number |
|---|---|---|
| Crystalline silica, quartz | 10-30 | 14808-60-7 |
| 1-Propene, 2-methyl-, homopolymer | 5-10 | 9003-27-4 |
| Titanium dioxide | 1-5 | 13463-67-7 |
| Carbon black | 0.1-1 | 1333-86-4 |

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 or spray.

**Unsuitable extinguishing media** : None known

## Section 5. Firefighting measures

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**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 dry, 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**

**Occupational exposure limits**

| Ingredient name | Exposure limits |
|---|---|
| Crystalline silica, quartz | **OSHA PEL Z3 (United States, 2/2013).**<br>TWA: 10 mg/m$^3$ 8 hours. Form: Respirable<br>TWA: 250 mppcf 8 hours Form: Respirable<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 0.05 mg/m$^3$ 10 hours. Form: Respirable dust<br>**ACGIH TLV (United States, 4/2014).**<br>TWA: 0.025 mg/m$^3$ 8 hours. Form: Respirable fraction.. |
| Titanium dioxide | **OSHA PEL (United States, 2/2013).**<br>TWA: 15 mg/m$^3$ 8 hours. Form: Total dust<br>**ACGIH TLV (United States, 4/2014).**<br>TWA: 10 mg/m$^3$ 8 hours.<br>**ACGIH TLV (United States, 4/2014).**<br>TWA: 3 mg/m$^3$ 8 hours. Form: Inhalable fraction |

## Section 8. Exposure Controls / Personal Protection

| | |
|---|---|
| **Carbon black** | **NIOSH REL (United States, 10/2013).**<br>TWA: 3.5 mg/m$^3$ 10 hours.<br>TWA: 0.1 mg of PAHs/cm$^3$ 10 hours.<br>**OSHA PEL (United States, 2/2013).**<br>TWA: 3.5 mg/m$^3$ 8 hours |

**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** : Not required under normal condition of use.

**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** :

**Other skin protection** :

**Respiratory protection** :

## Section 9. Physical and Chemical Properties

**Appearance**

**Physical state** : solid

**Color** : Not available

**Odor** : Not available

**Odor threshold** : Not available

**pH** : Not available

**Melting point** : Not available

**Boiling point** : Not available

**Flash point** : Not available

**Burning time** : Not available

**Burning rate** : Not available

**Evaporation rate** : Not available

**Flammability (solid, gas)** : Not available

**Lower and upper explosive (flammable) limits** : Not available

**Vapor pressure** : Not available

**Vapor density** : Not available

**Relative density** : Not available

**Solubility** : Insoluble in the following materials: cold water and hot water.

**Solubility in water** : Not available

**Partition coefficient n-octanol/water** : Not available

**Auto-ignition temperature** : Not available

**Decomposition temperature** : Not available

**SADT** : Not available

## Section 9. Physical and Chemical Properties

**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. Non-reactive or compatible with the following materials: reducing materials, combustible materials, organic materials, metals, acids, alkalis, and moisture.

**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**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Carbon black | LD50 Oral | Rat | >15400 mg/kg | - |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Titanium dioxide | Skin- Mild irritant | Human | - | 72 hours 300 µg intermittent | - |

**Sensitization**

**Skin** : There is no data available

**Respiratory** : There is no data available

**Mutagenicity**

There is no data available

**Carcinogenicity**

**Classification**

| Product/ ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| Crystalline silica, quartz | - | 1 | Known to be a human carcinogen. |
| Titanium dioxide | - | 2B | - |
| Carbon black | - | 2B | - |

There is no data available

**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)**

| NAME | Category | Route of exposure | Target organs |
|---|---|---|---|
| Crystalline silica, quartz | Category 1 | Inhalation | Kidneys, respiratory tract and testes |

**Aspiration hazard**

There is no data available

## Section 11. Toxicological Information

**Information on the likely routes of exposure** : Routes 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.

**Numerical measures of toxicity**

**Acute toxicity estimates**

There is no data available.

## Section 12. Ecological Information

**Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 1-Propene, 2-methyl-, homopolymer | Acute LC50 >5600000 µg/L Fresh water | Fish-Oncorhynchus mykiss | 96 hours |
| Titanium dioxide | Acute EC50 5.83 mg/L Fresh water | Algae-Pseudokirchneriella subcapitata Exponential growth phase | 72 hours |
| | Acute LC50 3 mg/L Fresh water | Crustaceans-Ceriodaphnia dubia Neonate | 48 hours |
| | Acute LC50 5.5 ppm Fresh water | Daphnia-Daphnia magna-Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 1000 mg/L Fresh water | Fish- Pimephales promelas | 96 hours |
| | Chronic NOEC 0.984 mg/L Fresh water | Algae- Pseudokirchneriella subcapitata Exponential growth phase | 72 hours |

**Persistence and degradability**

## Section 12. Ecological Information

There is no data available

**Bioaccumulative potential**

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Titanium dioxide | - | 352 | low |

**Mobility in soil**

**Soil/water partition coefficient ($K_{OC}$)** : Not available

**Other adverse effects** : No known significant effects or critical hazards.

## 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

| | DOT Classification | IMDG | IATA |
|---|---|---|---|
| **UN number** | Not regulated | Not regulated | Not regulated |
| **UN proper shipping name** | - | - | - |
| **Transport hazard class(es)** | - | - | - |
| **Packing group** | - | - | - |
| **Environmental hazards** | No. | No. | No. |
| **Additional information** | - | - | - |

**Special precautions for user** : **No** special precautions are required .

**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

## Section 15. Regulatory Information

**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**

| Name | % | EHS | SARA 302 TPQ | | SARA 304 RQ | |
|---|---|---|---|---|---|---|
| | | | (lbs) | (gallons) | (lbs) | (gallons) |
| No products were found | | | | | | |

**SARA 304 RQ** : Not applicable

**SARA 311/312**

**Classification** : Not applicable

**Composition/information on ingredients**

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---|---|---|---|---|---|
| Crystalline silica, quartz | 10-30 | No. | No. | No. | No. | Yes. |
| Titanium dioxide | 1-5 | No. | No. | No. | No. | Yes. |
| Carbon black | 0.1-1 | No. | No. | No. | No. | Yes. |

**SARA 313**

| | Product name | CAS number | % |
|---|---|---|---|
| **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: Titanium dioxide; Crystalline silica, quartz; Talc

**New York** : None of the components are listed

**New Jersey** : The following components are listed: Titanium dioxide; Crystalline silica, quartz; Distillates (petroleum), solvent-dewaxed heavy paraffinic; Talc; Carbon black

**Pennsylvania** : The following components are listed: Titanium dioxide; Crystalline silica, quartz; Talc; Carbon black

**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. |
| Titanium dioxide | Yes. | No. | No. | No. |
| Carbon black | Yes. | No. | No. | No. |
| Isoprene | Yes. | No. | No. | No. |

## Section 15. Regulatory Information

**International regulations**

**International lists** : **Australia inventory (AICS)**: Not determined.
**China inventory (IECSC)**: All components are listed or exempted.
**Japan inventory**: Not determined.
**Korea inventory**: All components are listed or exempted
**Malaysia Inventory (EHS Register)**: Not determined.
**New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted
**Philippines inventory (PICCS)**: All components are listed or exempted.
**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**

**Date of issue mm/dd/yyyy** : 06/01/2015

**Version** : 1

**Revised sections** : Not applicable

**Prepared by** : Concrete Sealant Inc.

**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**

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