Conforms to HazCom 2012/United States

ConSeal™ Concrete Sealants Inc.

SAFETY DATA SHEET

CS-212

Section 1. Identification

GHS product identifier : CS-212

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 statement are 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

CAS number/other identifiers

Section 3. Composition/information on ingredients

CAS number : Not applicable

Product code : Not available

Ingredient name	%	CAS number
Kaolin	10-30	1332-58-7
Palygorskite	10-30	12174-11-7
Petroleum asphalt	5-10	8052-42-4
Crystalline silica, quartz	1-5	14808-60-7
Carbon black	0.1-1	1333-86-4
Titanium dioxide	0.1-1	13463-67-7
4-(1,1,3,3-Tetramethylbutyl)phenol	0.1-1	140-66-9
Hydrogen sulfide	0-0.1	7783-06-4

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 entry.

Inhalation : Not a likely route of entry.

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.

Section 5. Firefighting measures

Unsuitable extinguishing media : None known

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
Kaolin	**ACGIH TLV (United States, 6/2013).** TWA: 2 mg/m^3 8 hours. Form: Respirable fraction **NIOSH REL (United States, 4/2013).** TWA: 5 mg/m^3 10 hours. Form: Respirable fraction TWA: 10 mg/m^3 10 hours. Form: Total **OSHA PEL (United States, 2/2013).** TWA: 5 mg/m^3 8 hours. Form: Respirable fraction TWA: 15 mg/m^3 8 hours. Total dust

Section 8. Exposure Controls / Personal Protection

Petroleum asphalt	**NIOSH REL (United States, 4/2013).** CEIL: 5 mg/m^3 15 minutes. Form: Fume **ACGIH TLV (United States, 6/2013).** TWA: 0.5 mg/m^3, (as benzene soluble aerosol) 8 hours. Form: Inhalable fraction
Crystalline silica, quartz	**OSHA PEL Z3 (United States, 2/2013).** TWA: 10 mg/m^3 8 hours. Form: Respirable TWA: 250 mppcf 8 hours. Form: Respirable **NIOSH REL (United States, 10/2013).** TWA: 0.05 mg/m^3 10 hours. Form: Respirable dust **ACGIH TLV (United States, 4/2014).** TWA: 0.025 mg/m^3 8 hours. Form: Respirable fraction
Carbon black	**ACGIH TLV (United States,4/2014).** TWA: 3 mg/m^3 8 hours. Form: Inhalable fraction. **NIOSH REL (United States, 10/2013).** TWA: 3.5 mg/m^3 10 hours. TWA: 0.1 mg of PAHs/cm^3 10 hours. **OSHA PEL (United States, 2/2013).** TWA: 3.5 mg/m^3 8 hours..
Titanium dioxide	**OSHA PEL (United States, 2/2013).** TWA: 15 mg/m^3 8 hours. Form: Total dust **ACGIH TLV (United States, 4/2014).** TWA: 10 mg/m^3 8 hours
Hydrogen sulphide	**ACGIH TLV (United States, 4/2014).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **NIOSH REL (United States, 10/2013).** CEIL: 15 mg/m^3 10 minutes. CEIL: 10 ppm 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 : Not required under normal conditions of use.

Skin protection

Hand protection : Chemical- resistant, Impervious gloves complying with an approved standard should be worn at 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 : black

Odor :

Section 9. Physical and Chemical Properties

Odor threshold	: Not available
pH	: Not available
Melting point	: Not available
Boiling point	: Not available
Flash point	: Open cup: 232.22^{0}C (450^{0}F) [Cleveland]
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
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
Petroleum asphalt	LD50 Oral	Rat	>5000mg/kg	-
Carbon black	LD50 Oral	Rat	>15400 mg/kg	-
4-(1,1,3,3-tetramethylbutyl)phenol	LD50 Dermal	Rabbit	1880 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
Hydrogen sulphide	LC50 Inhalation Gas	Rat	444 ppm	4 hours
	LC50 Inhalation Vapor	Rat	700 mg/m^3	4 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation

Section 11. Toxicological Information

Titanium dioxide	Skin- Mild irritant	Human	-	72 hours 300 µg intermittent	
4-(1,1,3,3-tetramethylbutyl)phenol	Eyes- Severe irritant Skin- Moderate irritant	Rabbit Rabbit		24 hours 50 µg 24 hours 20 µg	

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
Palygorskite	-	2B	
Petroleum asphalt	-	2B	
Crystalline silica, quartz	-	1	Known to be a human carcinogen.
Carbon black	-	2B	
Titanium dioxide	-	2B	

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
Kaolin	Category 2	Inhalation	Not determined
Crystalline silica, quartz	Category 1	Inhalation	kidneys, respiratory tract and testes

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

Section 11. Toxicological Information

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

Route	ATE value

Section 12. Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide	Acute EC50 5.83 mg/L Fresh water Acute LC50 3 mg/L Fresh water Acute LC50 5.5 ppm. Fresh water Acute LC50 1000 mg/L Fresh water Chronic NOEC 0.984 mg/L Fresh water	Algae- Pseudokirchneriella subcapitata- Exponential growth phase Crustaceans- Ceriodaphnia dubia- Neonate Daphnia- Daphnia magna- Juvenile (Fledgling, Hatchling, Weanling) Fish- Pimephales promelas	72 hours 48 hours 48 hours 96 hours
4-(1,1,3,3-tetramethylbutyl)phenol	Acute EC50 140 µg/L Marine water Acute LC50 0.42 to 0.5 mg/L Marine water Acute LC50 0.011 mg/L Fresh water Acute LC50 370 µg/L Fresh water Chronic NOEC 12 µg/L Fresh water	Algae- Pseudokirchneriella subcapitata Exponential growth phase Algae- Skeletonema costatum Crustaceans-Acartia tonsa-Adult Daphnia-Daphnia magna Fish- Danio rerio Fish-Danio rerio-Egg 78 days	72 hours 48 hours 48 hours 96 hours
Hydrogen sulfide	Acute EC50 62 µg/L Fresh water Acute LC50 2 µg/L Fresh water	Crustaceans-Gammarus Pseudokirchneriella Fish-Coregonus clupeaformis-Yolk-sac fry	2 days 96 hours

Persistence and degradability

There is no data available

Section 12. Ecological Information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Titanium dioxide	-	352	Low
4-(1,1,3,3-Tetramethylbutyl)phenol	4.8	740	high

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)PAIR: 4-(1,1,3,3-Tetramethylbutyl)phenol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

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

Clean Water Act (CWA) 311: Formaldehyde; Isoprene; Hydrogen sulfide

Section 15. Regulatory Information

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

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Hydrogen sulfide	0-0.1	Yes.	500	-	100	-
formaldehyde	0-0.1	Yes.	-	-	-	-

SARA 304 RQ : 1202501.2 lbs / 545935.5 kg

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
Kaolin	10-30	No.	No.	No.	No.	Yes.
Palygorskite	10-30	No.	No.	No.	No.	Yes.
Petroleum asphalt	5-10	No.	No.	No.	No.	Yes.
Crystalline silica, quartz	1-5	No.	No.	No.	No.	Yes.
Carbon black	0.1-1	No.	No.	No.	No.	Yes.
Titanium dioxide	0.1-1	No.	No.	No.	No.	Yes.
4-(1,1,3,3-Tetramethylbutyl)phenol	0.1-1	No.	No.	No.	Yes.	No.
Hydrogen sulfide	0-0.1	Yes.	Yes.	No.	Yes.	No.

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: Crystalline silica, quartz; Petroleum asphalt; Talc

New York : None of the following are listed.

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

Pennsylvania : The following components are listed: Kaolin; Crystalline silica, quartz; Titanium dioxide; Petroleum asphalt; 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
Palygorskite	Yes.	No.	No.	No.
Crystalline silica, quartz	Yes.	No.	No.	No.
Carbon black	Yes.	No.	No.	No.
Titanium dioxide	Yes.	No.	No.	No.
Isoprene	Yes.	No.	No.	No.
Formaldehyde	Yes.	No.	Yes.	No.

International regulations

International lists : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: Not determined.
Korea inventory: Not determined.
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

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.