

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 02/20/2019

Reviewed on 02/20/2019

1 Identification

- **Product Identifier**
- **Trade Name: ECO-TITE 5525 Gray**
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Product Description:** Sealant / Adhesive
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Silco Inc.
7635 St. Clair Avenue
Mentor, OH 44060
Phone: 440-975-8886
Fax: 440-975-8887
- **Emergency telephone number:** 440-975-8886

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Health hazard

Carc. 1A H350 May cause cancer.



Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2A H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 3 H402 Harmful to aquatic life.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements:**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS07 GHS08

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

Titanium Dioxide
 N-(3-(trimethoxysilyl)propyl)ethylenediamine
 Quartz (SiO₂)
 N,N-bis(3-(trimethylsiloxy)propyl)-1,2-ethanediamine

- **Hazard statements:**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.

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- H317 May cause an allergic skin reaction.
- H350 May cause cancer.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- 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 thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water.
- 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.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

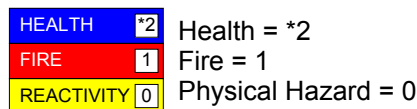
This value refers to knowledge of known, established toxicological or ecotoxicological values. 1 % of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Hazard(s) not otherwise classified (HNOC): None known

*** 3 Composition/Information on Ingredients**

- Chemical characterization: Mixtures**
- Description:** Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 1317-65-3	Natural limestone	40-60%
CAS: 2768-02-7	Trimethoxyvinylsilane ⚠ Flam. Liq. 2, H225; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2A, H319; ⚠ Aquatic Acute 2, H401	2-12%

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CAS: 13463-67-7	Titanium Dioxide ☠ Carc. 2, H351	≤2.5%
CAS: 7631-86-9	Silicon Dioxide ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	≤2.5%
CAS: 1760-24-3 RTECS: KV 7400000	N-(3-(trimethoxysilyl)propyl)ethylenediamine ☠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ☠ Skin Sens. 1, H317	≤2.5%
CAS: 67-56-1 RTECS: PC 1400000	Methanol ☠ Flam. Liq. 2, H225; ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ STOT SE 1, H370	≤2.5%
CAS: 25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol	≤2.5%
CAS: 74956-86-8	N,N-bis(3-(trimethylsiloxy)propyl)-1,2-ethanediamine ☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤2.5%
CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂) ☠ Carc. 1A, H350; STOT RE 1, H372; ☠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

Description of first aid measures

General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

After inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In case of unconsciousness place patient stably in the side position for transportation.

After skin contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes.

Remove contaminated clothing and wash before reuse.

Get medical attention if symptoms occur.

After eye contact:

If easy to do so, remove contact lenses if worn.

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.

Seek medical treatment.

After swallowing:

Do not induce vomiting.

If conscious, give no more than two glasses of water.

Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed:

May cause an allergic skin reaction. Prolonged exposure may cause chronic effects.

Indication of any immediate medical attention and special treatment needed:

Methanol is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

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5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:**
Material supports combustion. Vapors are heavier than air and may travel along the ground, be moved by ventilation systems, settle in pits or low areas, and be ignited by ignition sources distant from the handling point. The material is lighter than water, burning spilled material will float on top of any water released from hose or sprinkler systems, spreading the fire beyond the initial fire response area. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur.

- Hazardous decomposition products include: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide, nitrogen oxides and incompletely burnt hydrocarbons.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.
- **Additional information:** Cool fire exposed containers with water.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Ensure adequate ventilation.
Avoid contact with skin, eyes and clothing.
Do not breathe vapor.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

2768-02-7	Trimethoxyvinylsilane	9.5 ppm
13463-67-7	Titanium Dioxide	30 mg/m ³
7631-86-9	Silicon Dioxide	18 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	23 mg/m ³
67-56-1	Methanol	530 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³

· **PAC-2:**

2768-02-7	Trimethoxyvinylsilane	100 ppm
13463-67-7	Titanium Dioxide	330 mg/m ³
7631-86-9	Silicon Dioxide	740 mg/m ³

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1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	250 mg/m ³
67-56-1	Methanol	2,100 ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m ³
· PAC-3:		
2768-02-7	Trimethoxyvinylsilane	120 ppm
13463-67-7	Titanium Dioxide	2,000 mg/m ³
7631-86-9	Silicon Dioxide	4,500 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1,500 mg/m ³
67-56-1	Methanol	7200* ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
 Avoid contact with skin, eyes and clothing
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
 Keep protective respiratory device available.
 Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
 Store in a cool, dry place.
 Store in a well ventilated place.
 Store in the original container.
 Protect from moisture.
- **Information about storage in one common storage facility:** See Section 10 (Incompatible materials)
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

* 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
 The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
 At this time, the other constituents have no known exposure limits.

1317-65-3 Natural limestone	
NIOSH	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³
NIOSH TWA	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³ respirable dust

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OSHA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
OSHA TWA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ respirable fraction
67-56-1 Methanol	
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
14808-60-7 Quartz (SiO₂)	
PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction
Ingredients with biological limit values:	
67-56-1 Methanol	
BEI	15 mg/L urine end of shift Methanol (background, nonspecific)

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· **Personal protective equipment**

· **General protective and hygienic measures:**

- Do not smoke around this product.
- Do not eat or drink while handling product.
- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing and wash before reuse.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

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· **Protection of hands:**



Protective gloves

· **Material of gloves:** Any liquid-tight rubber or vinyl rubber protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:**

Keep away from drains, surface and ground waters.

Avoid release into the environment.

* 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Self-Leveling

· **Color:**

Gray

· **Odour:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

· **Melting point/Melting range:**

Not determined.

· **Boiling point/Boiling range:**

Not determined.

· **Flash point:**

>200 °C (>392 °F) (ISO 2592)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Not applicable

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Vapor pressure:**

Not determined.

· **Density @ 20 °C (68 °F):**

1.5 g/cm³ (12.5175 lbs/gal)

· **Relative density:**

Not determined.

· **Vapor density:**

Not determined.

· **Evaporation rate:**

Not determined.

· **Solubility in / Miscibility with:**

· **Water:**

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
 - Dynamic @ 23 °C (73.4 °F):** 55,000 cPs (BROOKFIELD)
 - Kinematic:** Not determined.
- **Solvent content:**
- **VOC content:** 31 g/l
- **Other information:** Explosion limits for released methanol: 5.5 - 44% (V).

10 Stability and Reactivity

- **Reactivity:** Stable under normal conditions.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
Thermal decomposition will result in carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide, nitrogen oxides and incompletely burnt hydrocarbons.
- **Possibility of hazardous reactions:** Reacts with: water. Reaction causes the formation of: methanol.
- **Conditions to avoid:** Moisture
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Under effect of humidity, water & protic agents: methanol

* 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

1317-65-3 Natural limestone		
Oral	LD50	6,450 mg/kg (Rat)
13463-67-7 Titanium Dioxide		
Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (Rat)
7631-86-9 Silicon Dioxide		
Oral	LD50	10,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50/4 h	>140->2,000 mg/l (Rat) (OCED 403) Maximum attainable concentration, mortality does not appear. 10,000 mg/l (Zebra fish) (OECD 203)
67-56-1 Methanol		
Oral	LD50	1,187 mg/kg (Rat)
Dermal	LD50	17,100 mg/kg (Rabbit)
Inhalative	LC50/4 h	128.2 mg/l (Rat)
	LC50/96 hours	15,400 mg/l (Trout)
14808-60-7 Quartz (SiO2)		
Oral	LD50	>22,500 mg/kg (Rat)
Inhalative	LC50/96 hours	1,033 mg/l (Trout)

- **Primary irritant effect:**
- **On the skin:**
Irritant to skin and mucous membranes.

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May cause an allergic skin reaction.

- **On the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant
Carcinogenic

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**

Although IARC has classified Silicon Dioxide as possibly carcinogenic to humans (3), their summary concludes: "No significant exposure to Silicon Dioxide is thought to occur during the use of products which Silicon Dioxide is bound to other materials such as in cosmetics, paints, inks and other applications where the Silicon Dioxide presents no respirable hazard"

"In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled"

- Group 1 - Carcinogenic to humans
- Group 2A - Probably carcinogenic to humans
- Group 2B - Possibly carcinogenic to humans
- Group 3 - Not classifiable as to its carcinogenicity to humans
- Group 4 - Probably not carcinogenic to humans

13463-67-7	Titanium Dioxide	2B
7631-86-9	Silicon Dioxide	3
14808-60-7	Quartz (SiO ₂)	1

- **NTP (National Toxicology Program):**

14808-60-7	Quartz (SiO ₂)	K
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

*** 12 Ecological Information**

- **Toxicity:**
- **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

13463-67-7 Titanium Dioxide	
EC50	>1,000 mg/l (Water flea)

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7631-86-9 Silicon Dioxide	
EC50	>1,000 mg/l (Daphnia) (OECD 202)
67-56-1 Methanol	
EC50	22,000 mg/l (Green algae) 10,000 mg/l (Daphnia)
14808-60-7 Quartz (SiO₂)	
EC50	218 mg/l (Green algae)

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Harmful to aquatic organisms
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

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*** 15 Regulatory Information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1 | Methanol

· **TSCA (Toxic Substances Control Act):**

1317-65-3	Natural limestone
2768-02-7	Trimethoxyvinylsilane
13463-67-7	Titanium Dioxide
7631-86-9	Silicon Dioxide
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine
67-56-1	Methanol
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol
68845-16-9	BIS[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENE DIAMINE
14808-60-7	Quartz (SiO ₂)
22673-19-4	Dibutyltin bis(acetylacetonate)

· **TSCA new (21st Century Act): (Substances not listed)**

74956-86-8 N,N-bis(3-(trimethylsiloxy)propyl)-1,2-ethanediamine

· **California Proposition 65:**

Warning: This product contains a chemical known in the state of California to cause birth defects.

· **Chemicals known to cause cancer:**

13463-67-7	Titanium Dioxide
14808-60-7	Quartz (SiO ₂)

· **Chemicals known to cause reproductive toxicity for females:**

22673-19-4 Dibutyltin bis(acetylacetonate)

· **Chemicals known to cause reproductive toxicity for males:**

22673-19-4 Dibutyltin bis(acetylacetonate)

· **Chemicals known to cause developmental toxicity:**

67-56-1 | Methanol

· **New Jersey Right-to-Know List:**

1317-65-3	Natural limestone
13463-67-7	Titanium Dioxide
67-56-1	Methanol
14808-60-7	Quartz (SiO ₂)

· **New Jersey Special Hazardous Substance List:**

67-56-1	Methanol		TE, F3
14808-60-7	Quartz (SiO ₂)		CA

· **Pennsylvania Right-to-Know List:**

1317-65-3 Natural limestone

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13463-67-7	Titanium Dioxide
7631-86-9	Silicon Dioxide
14808-60-7	Quartz (SiO ₂)

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**

13463-67-7	Titanium Dioxide	A4
14808-60-7	Quartz (SiO ₂)	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

13463-67-7	Titanium Dioxide
14808-60-7	Quartz (SiO ₂)

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS07 GHS08

· **Signal word: Danger**

· **Hazard-determining components of labeling:**

- Titanium Dioxide
- N-(3-(trimethoxysilyl)propyl)ethylenediamine
- Quartz (SiO₂)
- N,N-bis(3-(trimethylsiloxy)propyl)-1,2-ethanediamine

· **Hazard statements:**

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H350 May cause cancer.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements:**

- 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 thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water.
- 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.

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P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 02/20/2019 / 2

· Abbreviations and acronyms:

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety and Health
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEL: Biological Exposure Limit
- Flam. Liq. 2: Flammable liquids – Category 2
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 1A: Carcinogenicity – Category 1A
- Carc. 2: Carcinogenicity – Category 2
- STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
- Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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· * **Data compared to the previous version altered.**

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