

# Safety Data Sheet (SDS)

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

Issue date 01/29/2019

Reviewed on 01/29/2019

## 1 Identification

- **Product Identifier**
- **Trade Name: PERI-BOND (PB-3) Clear**
- **Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Product Description:** Siliconized acrylic caulk
- **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.  
Repr. 1B           H360 May damage fertility or the unborn child.



Environment

Aquatic Acute 1    H400 Very toxic to aquatic life.  
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



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.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07



GHS08



GHS09

- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
BBP  
Titanium Dioxide

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**Trade Name: PERI-BOND (PB-3) Clear**

Quartz (SiO<sub>2</sub>)

Chlorothalonil (ISO)

**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic 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.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Unknown acute toxicity:**

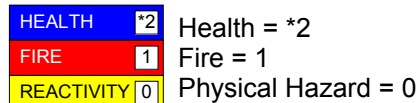
This value refers to knowledge of known, established toxicological or ecotoxicological values.

**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.

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| <b>Dangerous Components:</b>         |  |        |
|--------------------------------------|--|--------|
| CAS: 85-68-7<br>RTECS: TH 9990000    | BBP<br>⚠ Repr. 1B, H360; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410  | 25-50% |
| CAS: 1317-65-3                       | Natural limestone  | 2-12%  |
| CAS: 13463-67-7                      | Titanium Dioxide<br>⚠ Carc. 2, H351  | 2-12%  |
| CAS: 64742-47-8                      | Distillates (petroleum), hydrotreated light<br>⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336; Flam. Liq. 4, H227                  | ≤2.5%  |
| CAS: 1336-21-6                       | Ammonium Hydroxide<br>vPvB<br>⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302                                 | ≤2.5%  |
| CAS: 1897-45-6                       | Chlorothalonil (ISO)<br>⚠ Acute Tox. 2, H330; ⚠ Carc. 2, H351; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317; STOT SE 3, H335 | ≤2.5%  |
| CAS: 127087-87-0<br>RTECS: WZ4750000 | Nonylphenol Polyethylene Ethoxylate<br>⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332   | ≤2.5%  |
| CAS: 14808-60-7<br>RTECS: VV 7330000 | Quartz (SiO <sub>2</sub> )<br>⚠ 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:**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Remove contaminated clothes and shoes. Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor. Do NOT use solvents or thinners.

**After eye contact:**

If easy to do so, remove contact lenses if worn. Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Do not induce vomiting. If conscious, rinse mouth with water ensuring that the rinse is not swallowed. Seek medical assistance.

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**Trade Name: PERI-BOND (PB-3) Clear**

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:**

Quartz: Can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death; inhaled from occupational sources is classified as carcinogenic to humans. Some studies show in workers exposed to respirable quartz excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease, chronic bronchitis and emphysema.

May cause an allergic skin reaction.

· **Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5 Fire-Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, 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:**

Closed containers may explode when exposed to extreme heat.

· **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.

Do not discharge extinguishing water into the aquatic environment.

### 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Do not touch or walk through spilled material.

· **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:**

Ensure adequate ventilation.

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:**

|            |                                       |                      |
|------------|---------------------------------------|----------------------|
| 85-68-7    | BBP                                   | 15 mg/m <sup>3</sup> |
| 13463-67-7 | Titanium Dioxide                      | 30 mg/m <sup>3</sup> |
| 1336-21-6  | Ammonium Hydroxide                    | 61 ppm               |
| 107-21-1   | Ethylene glycol                       | 30 ppm               |
| 9036-19-5  | Polyethylene glycol octylphenyl ether | 13 mg/m <sup>3</sup> |

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|                 |   |                         |
|-----------------|---|-------------------------|
| 1897-45-6       | Chlorothalonil (ISO)  | 0.13 mg/m <sup>3</sup>  |
| 127087-87-0     | Nonylphenol Polyethylene Ethoxylate                           | 30 mg/m <sup>3</sup>    |
| 14808-60-7      | Quartz (SiO <sub>2</sub> )                                    | 0.075 mg/m <sup>3</sup> |
| 64742-65-0      | Petroleum Base Oil  | 140 mg/m <sup>3</sup>   |
| 2530-83-8       | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane                  | 9.3 mg/m <sup>3</sup>   |
| 111-46-6        | Diethylene Glycol   | 6.9 ppm                 |
| 84-74-2         | Dibutyl phthalate   | 15 mg/m <sup>3</sup>    |
| 25322-68-3      | Polyethylene Glycol   | 30 mg/m <sup>3</sup>    |
| 67762-90-7      | Siloxanes and Silicones, di-Me, reaction products with silica | 120 mg/m <sup>3</sup>   |
| <b>· PAC-2:</b> |   |                         |
| 85-68-7         | BBP   | 77 mg/m <sup>3</sup>    |
| 13463-67-7      | Titanium Dioxide  | 330 mg/m <sup>3</sup>   |
| 1336-21-6       | Ammonium Hydroxide  | 330 ppm                 |
| 107-21-1        | Ethylene glycol   | 150 ppm                 |
| 9036-19-5       | Polyethylene glycol octylphenyl ether                         | 140 mg/m <sup>3</sup>   |
| 1897-45-6       | Chlorothalonil (ISO)  | 1.4 mg/m <sup>3</sup>   |
| 127087-87-0     | Nonylphenol Polyethylene Ethoxylate                           | 330 mg/m <sup>3</sup>   |
| 14808-60-7      | Quartz (SiO <sub>2</sub> )                                    | 33 mg/m <sup>3</sup>    |
| 64742-65-0      | Petroleum Base Oil  | 1,500 mg/m <sup>3</sup> |
| 2530-83-8       | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane                  | 100 mg/m <sup>3</sup>   |
| 111-46-6        | Diethylene Glycol   | 140 ppm                 |
| 84-74-2         | Dibutyl phthalate   | 1,600 mg/m <sup>3</sup> |
| 25322-68-3      | Polyethylene Glycol   | 1,300 mg/m <sup>3</sup> |
| 67762-90-7      | Siloxanes and Silicones, di-Me, reaction products with silica | 1,300 mg/m <sup>3</sup> |
| <b>· PAC-3:</b> |   |                         |
| 85-68-7         | BBP   | 460 mg/m <sup>3</sup>   |
| 13463-67-7      | Titanium Dioxide  | 2,000 mg/m <sup>3</sup> |
| 1336-21-6       | Ammonium Hydroxide  | 2,300 ppm               |
| 107-21-1        | Ethylene glycol   | 900 ppm                 |
| 9036-19-5       | Polyethylene glycol octylphenyl ether                         | 830 mg/m <sup>3</sup>   |
| 1897-45-6       | Chlorothalonil (ISO)  | 8.6 mg/m <sup>3</sup>   |
| 127087-87-0     | Nonylphenol Polyethylene Ethoxylate                           | 2,000 mg/m <sup>3</sup> |
| 14808-60-7      | Quartz (SiO <sub>2</sub> )                                    | 200 mg/m <sup>3</sup>   |
| 64742-65-0      | Petroleum Base Oil  | 8,900 mg/m <sup>3</sup> |
| 2530-83-8       | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane                  | 230 mg/m <sup>3</sup>   |
| 111-46-6        | Diethylene Glycol   | 860 ppm                 |
| 84-74-2         | Dibutyl phthalate   | 9300* mg/m <sup>3</sup> |
| 25322-68-3      | Polyethylene Glycol   | 7,700 mg/m <sup>3</sup> |
| 67762-90-7      | Siloxanes and Silicones, di-Me, reaction products with silica | 7,900 mg/m <sup>3</sup> |

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### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
 Ensure good ventilation/exhaustion at the workplace.  
 Wear protective equipment.  
 Avoid contact with skin, eyes and clothing  
 Do not take internally.  
 Avoid breathing fume/gas/mist/vapors/spray.  
 Keep out of reach of children.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
 Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- **Information about storage in one common storage facility:** Not required.
- **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.

| <b>1317-65-3 Natural limestone</b>                            |   |
|---|---|
| NIOSH   | Short-term value: 5 mg/m <sup>3</sup><br>Long-term value: 10 mg/m <sup>3</sup>                        |
| NIOSH TWA   | Short-term value: 5 mg/m <sup>3</sup><br>Long-term value: 10 mg/m <sup>3</sup><br>respirable dust     |
| OSHA  | Short-term value: 5 mg/m <sup>3</sup><br>Long-term value: 15 mg/m <sup>3</sup>                        |
| OSHA TWA  | Short-term value: 5 mg/m <sup>3</sup><br>Long-term value: 15 mg/m <sup>3</sup><br>respirable fraction |
| <b>64742-47-8 Distillates (petroleum), hydrotreated light</b> |   |
| OSHA PEL  | Long-term value: 5 mg/m <sup>3</sup>  |

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| 14808-60-7 Quartz (SiO2) |  |
|--------------------------|--|
| PEL                      | Long-term value: 0.05* mg/m <sup>3</sup><br>*resp. dust; 30mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 |
| REL                      | Long-term value: 0.05* mg/m <sup>3</sup><br>*respirable dust; See Pocket Guide App. A              |
| TLV                      | Long-term value: 0.025* mg/m <sup>3</sup><br>*as respirable fraction                               |

· **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.
- 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.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

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· **Body protection:**



Protective work clothing

· **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:** Paste

**Color:** White

· **Odour:** Acrylic-like

· **Odor threshold:** Not determined.

· **pH-value @ 20 °C (68 °F):** 7.5-8.5

· **Change in condition**

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** >37.78 °C (>100 °F)

· **Flash point:** >93.89 °C (>201 °F) (Closed Cup)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** ≥435 °C (≥815 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** ≥0.4 Vol %

**Upper:** ≤3.2 Vol %

· **Vapor pressure @ 20 °C (68 °F):** 2.3 kPa

· **Density @ 20 °C (68 °F):** 1.68 g/cm<sup>3</sup> (14.0196 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** .33 (butyl acetate = 1)

· **Solubility in / Miscibility with:**

**Water:** Soluble.

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

· **Viscosity:**

**Dynamic:** 15-40 g/s

**Kinematic:** Not determined.

· **Solvent content:**

**Solids content:** 82.9 %

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· **Other information:** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity:** Stable under normal conditions.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
When exposed to high temperatures may produce hazardous decomposition products.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** High temperatures and incompatible materials.
- **Incompatible materials:**  
Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
- **Hazardous decomposition products:**  
Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

|   |               |  |
|---|---------------|--|
| <b>85-68-7 BBP</b>  |               |  |
| Oral  | LD50          | 2,330 mg/kg (Rat)  |
| <b>1317-65-3 Natural limestone</b>                            |               |  |
| Oral  | LD50          | 6,450 mg/kg (Rat)  |
| <b>13463-67-7 Titanium Dioxide</b>                            |               |  |
| Oral  | LD50          | >10,000 mg/kg (Rat)  |
| Dermal  | LD50          | >10,000 mg/kg (Rabbit)   |
| Inhalative  | LC50/4 h      | >6.82 mg/l (Rat)   |
| <b>64742-47-8 Distillates (petroleum), hydrotreated light</b> |               |  |
| Oral  | LD50          | >5,000 mg/kg (Rat)   |
| Dermal  | LD50          | >2,000 mg/kg (Rabbit)  |
| <b>1336-21-6 Ammonium Hydroxide</b>                           |               |  |
| Oral  | LD50          | 350 mg/kg (RAT)<br>Remarks: Gastrointestinal: Other changes. Liver: Other changes. Kidney, Ureter, Bladder: Other changes. |
| Inhalative  | LC50/96 hours | 8.2 mg/l (Pimephales)  |
| <b>127087-87-0 Nonylphenol Polyethylene Ethoxylate</b>        |               |  |
| Oral  | LD50          | 16,000 mg/kg (Rat)   |
| Dermal  | LD50          | 4,490 mg/kg (Rabbit) (24 hr occluded contact)  |
| Inhalative  | LC50/96 hours | 3.8-6.2 mg/l (Pimephales)  |
|   | LC50/48 hrs   | 9.3-21.4 mg/l (Water flea)   |
| <b>14808-60-7 Quartz (SiO2)</b>                               |               |  |
| Oral  | LD50          | >22,500 mg/kg (Rat)  |
| Inhalative  | LC50/96 hours | 1,033 mg/l (Trout)   |

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· **Primary irritant effect:**

· **On the skin:**

Irritant to skin and mucous membranes.  
May cause an allergic skin reaction.

· **On the eye:** Irritating effect.

· **Additional toxicological information:**

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

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

"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"

(a) Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as in cosmetics or in paints."

(b) OSHA does not regulate Titanium Dioxide as a carcinogen. However, under 29 CFR 1910.1200 the SDS must convey the fact that Titanium Dioxide is a potential carcinogen to rats.

- 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

|            |                            |    |
|------------|----------------------------|----|
| 85-68-7    | BBP                        | 3  |
| 13463-67-7 | Titanium Dioxide           | 2B |
| 1897-45-6  | Chlorothalonil (ISO)       | 2B |
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | 1  |

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

|            |                            |   |
|------------|----------------------------|---|
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | K |
|------------|----------------------------|---|

· **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.

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**Trade Name: PERI-BOND (PB-3) Clear**

|   |   |
|---|---|
| <b>13463-67-7 Titanium Dioxide</b>                            |   |
| EC50  | >1,000 mg/l (Water flea)  |
| <b>64742-47-8 Distillates (petroleum), hydrotreated light</b> |   |
| EC50  | 25 mg/l (Trout) (OECD Test Guideline 203, 96 hour, Static Test) |
| <b>1336-21-6 Ammonium Hydroxide</b>                           |   |
| EC50  | 0.66 mg/l (Daphnia)<br>0.66 mg/l (Water flea)                   |
| <b>14808-60-7 Quartz (SiO<sub>2</sub>)</b>                    |   |
| 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:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 3 (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.  
 Poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.

|                |                    |
|----------------|--------------------|
| · <b>vPvB:</b> |                    |
| 1336-21-6      | Ammonium Hydroxide |

- **Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times 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.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

- **UN-Number:**
- **DOT** Non-Regulated Material
- **ADR/ADN, IMDG, IATA** UN3082

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**Trade Name: PERI-BOND (PB-3) Clear**

- **UN proper shipping name:** Non-Regulated Material
- **DOT** UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BBP, Ammonium Hydroxide)
- **ADR/ADN** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BBP, Ammonium Hydroxide), MARINE POLLUTANT
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BBP, Ammonium Hydroxide)
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BBP, Ammonium Hydroxide)
- **Transport hazard class(es):**

- **DOT** Non-Regulated Material
- **Class:**

· **ADR/ADN**



- **Class:** 9 (M6) Miscellaneous dangerous substances and articles
- **Label:** 9

· **IMDG, IATA**



- **Class:** 9 Miscellaneous dangerous substances and articles
- **Label:** 9
- **Packing group:**
- **DOT** Non-Regulated Material
- **ADR/ADN, IMDG, IATA** III
- **Environmental hazards:** Product contains environmentally hazardous substances: BBP
- **Special marking (ADR/ADN):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)
- **Special precautions for user:** Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F
- **Segregation groups:** Ammonium compounds, alkalis
- **Stowage Category** A
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· **Transport/Additional information:**

· **ADR/ADN**

- **Excepted quantities (EQ):** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

- **Limited quantities (LQ):** 5L

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**Trade Name: PERI-BOND (PB-3) Clear**

- **Excepted quantities (EQ):** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BBP, AMMONIUM HYDROXIDE), 9, III

**15 Regulatory Information**

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

|  |  |
|--|--|
| <b>· Section 355 (extremely hazardous substances):</b> |  |
| None of the ingredients are listed.                    |  |

|  |                      |
|--|----------------------|
| <b>· Section 313 (Specific toxic chemical listings):</b> |                      |
| 1336-21-6  | Ammonium Hydroxide   |
| 107-21-1   | Ethylene glycol      |
| 1897-45-6  | Chlorothalonil (ISO) |
| 84-74-2  | Dibutyl phthalate    |

|   |   |
|---|---|
| <b>· TSCA (Toxic Substances Control Act):</b> |   |
| 85-68-7                                       | BBP   |
| 1317-65-3                                     | Natural limestone   |
| 13463-67-7                                    | Titanium Dioxide  |
| 64742-47-8                                    | Distillates (petroleum), hydrotreated light                   |
| 1336-21-6                                     | Ammonium Hydroxide  |
| 107-21-1                                      | Ethylene glycol   |
| 9036-19-5                                     | Polyethylene glycol octylphenyl ether                         |
| 1897-45-6                                     | Chlorothalonil (ISO)  |
| 127087-87-0                                   | Nonylphenol Polyethylene Ethoxylate                           |
| 14808-60-7                                    | Quartz (SiO <sub>2</sub> )                                    |
| 64742-65-0                                    | Petroleum Base Oil  |
| 2530-83-8                                     | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane                  |
| 111-46-6                                      | Diethylene Glycol   |
| 54193-36-1                                    | Poly(methacrylic acid, sodium salt)                           |
| 84-74-2                                       | Dibutyl phthalate   |
| 25322-68-3                                    | Polyethylene Glycol   |
| 67762-90-7                                    | Siloxanes and Silicones, di-Me, reaction products with silica |
| 9014-93-1                                     | Dinonylphenyl polyoxyethylene                                 |

|   |                      |
|---|----------------------|
| <b>· TSCA new (21st Century Act): (Substances not listed)</b> |                      |
| 1897-45-6   | Chlorothalonil (ISO) |

- **California Proposition 65:**  
Warning: This product contains a chemical known in the state of California to cause birth defects.

|   |                            |
|---|----------------------------|
| <b>· Chemicals known to cause cancer:</b> |                            |
| 13463-67-7                                | Titanium Dioxide           |
| 1897-45-6                                 | Chlorothalonil (ISO)       |
| 14808-60-7                                | Quartz (SiO <sub>2</sub> ) |

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**Trade Name: PERI-BOND (PB-3) Clear**

|  |                            |    |
|--|----------------------------|----|
| <b>· Chemicals known to cause reproductive toxicity for females:</b> |                            |    |
| 84-74-2  | Dibutyl phthalate          |    |
| <b>· Chemicals known to cause reproductive toxicity for males:</b>   |                            |    |
| 84-74-2  | Dibutyl phthalate          |    |
| <b>· Chemicals known to cause developmental toxicity:</b>            |                            |    |
| 85-68-7  | BBP                        |    |
| 107-21-1   | Ethylene glycol            |    |
| <b>· New Jersey Right-to-Know List:</b>                              |                            |    |
| 85-68-7  | BBP                        |    |
| 1317-65-3  | Natural limestone          |    |
| 13463-67-7   | Titanium Dioxide           |    |
| 1336-21-6  | Ammonium Hydroxide         |    |
| 107-21-1   | Ethylene glycol            |    |
| 1897-45-6  | Chlorothalonil (ISO)       |    |
| 14808-60-7   | Quartz (SiO <sub>2</sub> ) |    |
| 84-74-2  | Dibutyl phthalate          |    |
| 25322-68-3   | Polyethylene Glycol        |    |
| <b>· New Jersey Special Hazardous Substance List:</b>                |                            |    |
| 85-68-7  | BBP                        | CA |
| 1336-21-6  | Ammonium Hydroxide         | CO |
| 1897-45-6  | Chlorothalonil (ISO)       | CA |
| 14808-60-7   | Quartz (SiO <sub>2</sub> ) | CA |
| 84-74-2  | Dibutyl phthalate          | TE |
| <b>· Pennsylvania Right-to-Know List:</b>                            |                            |    |
| 85-68-7  | BBP                        |    |
| 1317-65-3  | Natural limestone          |    |
| 13463-67-7   | Titanium Dioxide           |    |
| 1336-21-6  | Ammonium Hydroxide         |    |
| 107-21-1   | Ethylene glycol            |    |
| 1897-45-6  | Chlorothalonil (ISO)       |    |
| 14808-60-7   | Quartz (SiO <sub>2</sub> ) |    |
| 111-46-6   | Diethylene Glycol          |    |
| 84-74-2  | Dibutyl phthalate          |    |
| 25322-68-3   | Polyethylene Glycol        |    |
| <b>· Pennsylvania Special Hazardous Substance List:</b>              |                            |    |
| 85-68-7  | BBP                        | E  |
| 1336-21-6  | Ammonium Hydroxide         | E  |
| 107-21-1   | Ethylene glycol            | E  |
| 1897-45-6  | Chlorothalonil (ISO)       | E  |
| 84-74-2  | Dibutyl phthalate          | E  |

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**Trade Name: PERI-BOND (PB-3) Clear**

· **Carcinogenic categories:**

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

|         |                   |   |
|---------|-------------------|---|
| 85-68-7 | BBP               | C |
| 84-74-2 | Dibutyl phthalate | D |

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

|            |                            |    |
|------------|----------------------------|----|
| 13463-67-7 | Titanium Dioxide           | A4 |
| 107-21-1   | Ethylene glycol            | A4 |
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | A2 |

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

|            |                            |
|------------|----------------------------|
| 13463-67-7 | Titanium Dioxide           |
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) |

· **GHS label elements**

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

· **Hazard pictograms:**



GHS07 GHS08 GHS09

· **Signal word:** Danger

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

BBP  
Titanium Dioxide  
Quartz (SiO<sub>2</sub>)  
Chlorothalonil (ISO)

· **Hazard statements:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic 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.

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**Trade Name: PERI-BOND (PB-3) Clear**

|           |   |
|-----------|---|
| 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.  |
| P391      | Collect spillage.   |
| 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:** 01/29/2019 / 4

**· 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)
- HMSI: Hazardous Materials Identification System (USA)
- 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
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 2: Acute toxicity – Category 2
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- 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
- Repr. 1B: Reproductive toxicity – Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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