

# SAFETY DATA SHEET

## 1. Identification

**Material name:** SOLARGARD H.B. SCC PEARL ASH 5 GL  
**Material:** 1512042205P

**Recommended use and restriction on use**

**Recommended use:** Coatings  
**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor Information**

Tremco U.S. Roofing  
3735 Green Road  
Beachwood OH 44122  
US

**Contact person:** EH&S Department  
**Telephone:** 216-292-5000  
**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Carcinogenicity Category 1A

#### Unknown toxicity - Health

|  |         |
|--|---------|
| Acute toxicity, oral                     | 34.22 % |
| Acute toxicity, dermal                   | 39.4 %  |
| Acute toxicity, inhalation, vapor        | 100 %   |
| Acute toxicity, inhalation, dust or mist | 99.69 % |

#### Environmental Hazards

Acute hazards to the aquatic environment Category 3

#### Unknown toxicity - Environment

|  |         |
|--|---------|
| Acute hazards to the aquatic environment   | 90.81 % |
| Chronic hazards to the aquatic environment | 97.37 % |

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** May cause cancer.  
Harmful to aquatic life.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

**Response:** IF exposed or concerned: Get medical advice/attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Mixtures**

| Chemical Identity                           | CAS number   | Content in percent (%)* |
|---|--------------|-------------------------|
| Calcium carbonate                           | 471-34-1     | 20 - <50%               |
| Titanium dioxide                            | 13463-67-7   | 1 - <5%                 |
| Propylene glycol                            | 57-55-6      | 1 - <5%                 |
| Zinc oxide                                  | 1314-13-2    | 1 - <5%                 |
| Cellulose                                   | 9004-34-6    | 1 - <5%                 |
| Clay  | 1332-58-7    | 0.1 - <1%               |
| Magnesite                                   | 546-93-0     | 0.1 - <1%               |
| Aluminum oxide                              | 1344-28-1    | 0.1 - <1%               |
| Trade Secret                                | Trade Secret | 0.1 - <1%               |
| Crystalline Silica (Quartz)/<br>Silica Sand | 14808-60-7   | 0.1 - <1%               |
| Iron oxide                                  | 1309-37-1    | 0.1 - <1%               |
| Ammonium hydroxide                          | 1336-21-6    | 0.1 - <1%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

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|                      |   |
|----------------------|---|
| <b>Ingestion:</b>    | Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth.   |
| <b>Inhalation:</b>   | Move to fresh air.  |
| <b>Skin Contact:</b> | Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.  |
| <b>Eye contact:</b>  | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention. |

**Most important symptoms/effects, acute and delayed**

**Symptoms:** May cause skin and eye irritation.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Symptoms may be delayed.

**5. Fire-fighting measures**

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** No data available.

**Methods and material for containment and cleaning up:** Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

## 7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:** Store locked up.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

| Chemical Identity                        | Type    | Exposure Limit Values                          | Source   |
|--|---------|--|--|
| Calcium carbonate - Total dust.          | PEL     | 15 mg/m <sup>3</sup>                           | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)                |
| Calcium carbonate - Respirable fraction. | PEL     | 5 mg/m <sup>3</sup>                            | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)                |
| Titanium dioxide                         | TWA     | 10 mg/m <sup>3</sup>                           | US. ACGIH Threshold Limit Values (2011)  |
| Titanium dioxide - Total dust.           | PEL     | 15 mg/m <sup>3</sup>                           | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)                |
|  | TWA     | 10 mg/m <sup>3</sup>                           | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)   |
|  | TWA     | 10 mg/m <sup>3</sup>                           | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                     |
| Titanium dioxide                         | ST ESL  | 50 µg/m <sup>3</sup>                           | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)  |
|  | AN ESL  | 5 µg/m <sup>3</sup>                            | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)  |
| Titanium dioxide - Total dust.           | TWA PEL | 10 mg/m <sup>3</sup>                           | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015) |
| Titanium dioxide - Respirable fraction.  | TWA PEL | 5 mg/m <sup>3</sup>                            | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015) |
|  | TWA     | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)  |
| Titanium dioxide - Total dust.           | TWA     | 15 mg/m <sup>3</sup>                           | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)  |
| Titanium dioxide - Respirable fraction.  | TWA     | 5 mg/m <sup>3</sup>                            | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)  |
| Titanium dioxide - Total dust.           | TWA     | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)  |
| Zinc oxide - Respirable fraction.        | TWA     | 2 mg/m <sup>3</sup>                            | US. ACGIH Threshold Limit Values (2011)  |
|  | STEL    | 10 mg/m <sup>3</sup>                           | US. ACGIH Threshold Limit Values (2011)  |
| Zinc oxide - Fume.                       | PEL     | 5 mg/m <sup>3</sup>                            | US. OSHA Table Z-1 Limits for Air  |

|                                       |     |  |   |
|---------------------------------------|-----|--|---|
|                                       |     |  | Contaminants (29 CFR 1910.1000) (02 2006)                                   |
| Zinc oxide - Total dust.              | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Zinc oxide - Respirable fraction.     | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Cellulose                             | TWA | 10 mg/m3                                       | US. ACGIH Threshold Limit Values (2011)                                     |
| Cellulose - Total dust.               | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Cellulose - Respirable fraction.      | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Clay - Respirable fraction.           | TWA | 2 mg/m3  | US. ACGIH Threshold Limit Values (2011)                                     |
|                                       | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Clay - Total dust.                    | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
|                                       | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Clay - Respirable fraction.           | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
|                                       | TWA | 5 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Clay - Total dust.                    | TWA | 15 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Magnesite - Total dust.               | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Magnesite - Respirable fraction.      | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Respirable fraction. | TWA | 1 mg/m3  | US. ACGIH Threshold Limit Values (2011)                                     |
|                                       | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Total dust.          | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Aluminum oxide - Respirable fraction. | TWA | 5 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Aluminum oxide - Total dust.          | TWA | 15 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
|                                       | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Aluminum oxide - Respirable fraction. | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Trade Secret - Inhalable particles.   | TWA | 10 mg/m3                                       | US. ACGIH Threshold Limit Values (03 2015)                                  |
| Trade Secret - Respirable particles.  | TWA | 3 mg/m3  | US. ACGIH Threshold Limit Values (03 2015)                                  |
| Trade Secret - Respirable fraction.   | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Trade Secret - Total dust.            | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
|                                       | TWA | 15 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                |
|                                       | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                |
| Trade Secret - Respirable fraction.   | TWA | 5 mg/m3  | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                |
|                                       | TWA | 15 millions of particles per cubic foot of     | US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)                                |

|   |                  | air  |   |
|---|------------------|--|---|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>fraction. | TWA              | 0.025 mg/m <sup>3</sup>                                  | US. ACGIH Threshold Limit Values (2011)   |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable.             | TWA              | 2.4 millions<br>of particles<br>per cubic foot<br>of air | US. OSHA Table Z-3 (29 CFR 1910.1000)<br>(2000)                                 |
|   | TWA              | 0.1 mg/m <sup>3</sup>                                    | US. OSHA Table Z-3 (29 CFR 1910.1000)<br>(2000)                                 |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA              | 0.05 mg/m <sup>3</sup>                                   | US. OSHA Specifically Regulated Substances<br>(29 CFR 1910.1001-1050) (03 2016) |
|   | OSHA_A<br>C<br>T | 0.025 mg/m <sup>3</sup>                                  | US. OSHA Specifically Regulated Substances<br>(29 CFR 1910.1001-1050) (03 2016) |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | PEL              | 0.05 mg/m <sup>3</sup>                                   | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (03 2016)  |
| Iron oxide - Respirable<br>fraction.                                  | TWA              | 5 mg/m <sup>3</sup>                                      | US. ACGIH Threshold Limit Values (2011)   |
| Iron oxide - Fume.  | PEL              | 10 mg/m <sup>3</sup>                                     | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006)  |
| Iron oxide - Total dust.  | TWA              | 15 mg/m <sup>3</sup>                                     | US. OSHA Table Z-3 (29 CFR 1910.1000) (03<br>2016)                              |
|   | TWA              | 50 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03<br>2016)                              |
| Iron oxide - Respirable<br>fraction.                                  | TWA              | 5 mg/m <sup>3</sup>                                      | US. OSHA Table Z-3 (29 CFR 1910.1000) (03<br>2016)                              |
|   | TWA              | 15 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000) (03<br>2016)                              |
| Ammonium hydroxide  | STEL             | 35 ppm   | US. ACGIH Threshold Limit Values (2011)   |
|   | TWA              | 25 ppm   | US. ACGIH Threshold Limit Values (2011)   |
|   | PEL              | 50 ppm 35 mg/m <sup>3</sup>                              | US. OSHA Table Z-1 Limits for Air<br>Contaminants (29 CFR 1910.1000) (02 2006)  |

| Chemical name                            | Type | Exposure Limit Values        | Source  |
|--|------|------------------------------|---|
| Calcium carbonate - Total dust.          | STEL | 20 mg/m <sup>3</sup>         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium carbonate - Respirable fraction. | TWA  | 3 mg/m <sup>3</sup>          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium carbonate - Total dust.          | TWA  | 10 mg/m <sup>3</sup>         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium carbonate - Total dust.          | TWA  | 10 mg/m <sup>3</sup>         | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Titanium dioxide                         | TWA  | 10 mg/m <sup>3</sup>         | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)   |
| Titanium dioxide - Total dust.           | TWA  | 10 mg/m <sup>3</sup>         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide - Respirable fraction.  | TWA  | 3 mg/m <sup>3</sup>          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide                         | TWA  | 10 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Titanium dioxide - Total dust.           | TWA  | 10 mg/m <sup>3</sup>         | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Propylene glycol - Aerosol.              | TWA  | 10 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Propylene glycol - Vapor and aerosol.    | TWA  | 50 ppm 155 mg/m <sup>3</sup> | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Zinc oxide - Respirable.                 | TWA  | 2 mg/m <sup>3</sup>          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|  | STEL | 10 mg/m <sup>3</sup>         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Zinc oxide - Respirable fraction.        | TWA  | 2 mg/m <sup>3</sup>          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|  | STEL | 10 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |

|  |      |             |   |
|--|------|-------------|---|
| Zinc oxide - Fume.   | TWA  | 5 mg/m3     | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Zinc oxide - Total dust.   | TWA  | 10 mg/m3    | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Zinc oxide - Fume.   | STEL | 10 mg/m3    | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Cellulose - Respirable fraction.                                   | TWA  | 3 mg/m3     | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cellulose - Total dust.  | TWA  | 10 mg/m3    | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cellulose  | TWA  | 10 mg/m3    | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Cellulose - Total dust.  | TWA  | 10 mg/m3    | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable fraction. | TWA  | 0.025 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable fraction. | TWA  | 0.10 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.     | TWA  | 0.1 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |

**Appropriate Engineering Controls**

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

**Individual protection measures, such as personal protective equipment**

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

**9. Physical and chemical properties**



**Appearance**

|  |   |
|--|---|
| <b>Physical state:</b>                                       | liquid  |
| <b>Form:</b>   | liquid  |
| <b>Color:</b>  | Brown   |
| <b>Odor:</b>   | Mild  |
| <b>Odor threshold:</b>                                       | No data available.  |
| <b>pH:</b>   | 9 - 10 9 - 10   |
| <b>Melting point/freezing point:</b>                         | No data available.  |
| <b>Initial boiling point and boiling range:</b>              | 100 °C 212 °F   |
| <b>Flash Point:</b>  | No data available.  |
| <b>Evaporation rate:</b>                                     | Slower than Ether   |
| <b>Flammability (solid, gas):</b>                            | No  |
| <b>Upper/lower limit on flammability or explosive limits</b> |   |
| <b>Flammability limit - upper (%):</b>                       | No data available.  |
| <b>Flammability limit - lower (%):</b>                       | No data available.  |
| <b>Explosive limit - upper (%):</b>                          | No data available.  |
| <b>Explosive limit - lower (%):</b>                          | No data available.  |
| <b>Vapor pressure:</b>                                       | No data available.  |
| <b>Vapor density:</b>  | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| <b>Relative density:</b>                                     | 1.25  |
| <b>Solubility(ies)</b>                                       |   |
| <b>Solubility in water:</b>                                  | Soluble   |
| <b>Solubility (other):</b>                                   | No data available.  |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available.  |
| <b>Auto-ignition temperature:</b>                            | No data available.  |
| <b>Decomposition temperature:</b>                            | No data available.  |
| <b>Viscosity:</b>  | No data available.  |

**10. Stability and reactivity**

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No data available.  |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions:</b> | No data available.  |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination.  |
| <b>Incompatible Materials:</b>             | Strong acids. Strong bases.   |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

**11. Toxicological information****Information on likely routes of exposure**

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|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| <b>Skin Contact:</b> | May be harmful in contact with skin.  |
| <b>Eye contact:</b>  | Eye contact is possible and should be avoided.  |
| <b>Ingestion:</b>    | May be ingested by accident. Ingestion may cause irritation and malaise.                      |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | No data available. |

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)****Oral**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**

|                   |                             |
|-------------------|-----------------------------|
| Calcium carbonate | LD 50 (Rat): 6,450 mg/kg    |
| Titanium dioxide  | LD 50 (Rat): > 5,000 mg/kg  |
| Propylene glycol  | LD 50 (Rat): 22,000 mg/kg   |
| Zinc oxide        | LD 50 (Rat): > 5,000 mg/kg  |
| Cellulose         | LD 50 (Rat): 5,001 mg/kg    |
| Clay              | LD 50 (Rat): > 5,000 mg/kg  |
| Magnesite         | LD 50 (Rat): > 2,000 mg/kg  |
| Aluminum oxide    | LD 50 (Rat): > 10,000 mg/kg |
| Trade Secret      | LD 50 (Rat): 5,001 mg/kg    |

Iron oxide                      LD 50 (Rat): > 5,000 mg/kg

Ammonium hydroxide        LD 50 (Rat): 350 mg/kg

**Dermal**

**Product:**                      ATEmix: 3,867.99 mg/kg

**Inhalation**

**Product:**                      Not classified for acute toxicity based on available data.

**Specified substance(s):**

Titanium dioxide            LC 50 (Rat): 3.43 mg/l

Zinc oxide                    LC 50 (Rat): > 5,700 mg/m<sup>3</sup>

Cellulose                     LC 50 (Rabbit): 20.1 mg/l

Aluminum oxide            LC 50 (Rat): 7.6 mg/l

Trade Secret                LC 50 (Rabbit): 20.1 mg/l

**Repeated dose toxicity**

**Product:**                      No data available.

**Skin Corrosion/Irritation**

**Product:**                      No data available.

**Specified substance(s):**

|                   |  |
|-------------------|--|
| Calcium carbonate | in vivo (Rabbit): Not irritant Experimental result, Key study  |
| Titanium dioxide  | in vivo (Rabbit): Not irritant Experimental result, Supporting study                                     |
| Propylene glycol  | in vivo (Rabbit): Not irritant Experimental result, Key study  |
| Zinc oxide        | in vivo (Rabbit): Not irritant Experimental result, Key study  |
| Magnesite         | In vitro (Human, in vitro reconstituted epidermis model): Not irritant<br>Experimental result, Key study |
| Aluminum oxide    | in vivo (Rabbit): Not irritant Experimental result, Key study  |
| Iron oxide        | in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study                             |

**Serious Eye Damage/Eye Irritation****Product:** No data available.**Specified substance(s):**

|                   |  |
|-------------------|--|
| Calcium carbonate | Rabbit, 24 - 72 hrs: Not irritating                            |
| Titanium dioxide  | Rabbit, 24 hrs: Not irritating                                 |
| Zinc oxide        | Rabbit, 24 - 72 hrs: Not irritating                            |
| Magnesite         | Reconstituted Corneal Epithelium model, 10 min: Not irritating |
| Aluminum oxide    | Rabbit, 24 hrs: Not irritating                                 |

**Respiratory or Skin Sensitization****Product:** No data available.**Carcinogenicity****Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

|  |  |
|--|--|
| Titanium dioxide                               | Overall evaluation: Possibly carcinogenic to humans. |
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Overall evaluation: Carcinogenic to humans.          |

**US. National Toxicology Program (NTP) Report on Carcinogens:**

|  |                               |
|--|-------------------------------|
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Known To Be Human Carcinogen. |
|--|-------------------------------|

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

Crystalline Silica  
(Quartz)/ Silica      Cancer  
Sand

**Germ Cell Mutagenicity**

**In vitro**  
**Product:**                      No data available.

**In vivo**  
**Product:**                      No data available.

**Reproductive toxicity**  
**Product:**                      No data available.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:**                      No data available.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:**                      No data available.

**Aspiration Hazard**  
**Product:**                      No data available.

**Other effects:**                      No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**  
**Product:**                      No data available.

**Specified substance(s):**  
Titanium dioxide                      LC 50 (Pimephales promelas, 96 h): 8.2 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study  
  
Propylene glycol                      LC 50 (Oncorhynchus mykiss, 96 h): 40,613 mg/l Experimental result, Key study  
  
Zinc oxide                              LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2,246 mg/l Mortality

**Aquatic Invertebrates**

|                                |  |
|--------------------------------|--|
| <b>Product:</b>                | No data available.   |
| <b>Specified substance(s):</b> |  |
| Titanium dioxide               | EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication          |
| Propylene glycol               | LC 50 (Ceriodaphnia dubia, 48 h): 18,340 mg/l Experimental result, Key study |

**Chronic hazards to the aquatic environment:****Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

    Propylene glycol NOEC (Ceriodaphnia sp., 7 d): 13,020 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability****Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential****Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

    Titanium dioxide Cyprinus carpio, Bioconcentration Factor (BCF): 16 Aquatic sediment Experimental result, Supporting study  
    Bioconcentration Factor (BCF): 0.16 Terrestrial Experimental result, Supporting study  
    Cyprinus carpio, Bioconcentration Factor (BCF): 9 Aquatic sediment Experimental result, Supporting study  
    Cyprinus carpio, Bioconcentration Factor (BCF): 8 Aquatic sediment Experimental result, Supporting study  
    Oncorhynchus mykiss, Bioconcentration Factor (BCF): 58 Aquatic sediment Experimental result, Key study

    Propylene glycol Bioconcentration Factor (BCF): 0.09 Aquatic sediment Estimated by calculation, Supporting study

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

Propylene glycol

Log Kow: -0.92  
Log Kow: -1.41 - -0.3 20 °C No Other, Supporting study

**Mobility in soil:** No data available.

**Other adverse effects:** Harmful to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:** No data available.

### 14. Transport information

**TDG:**

Not Regulated

**CFR / DOT:**

Not Regulated

**IMDG:**

Not Regulated

### 15. Regulatory information

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

| <u>Chemical Identity</u>                    | <u>OSHA hazard(s)</u>  |
|---|--|
| Crystalline Silica<br>(Quartz)/ Silica Sand | kidney effects<br>lung effects<br>immune system effects<br>Cancer  |
| Acrylonitrile                               | Liver<br>Central nervous system<br>Flammability<br>Eye irritation<br>Skin irritation<br>Skin sensitization<br>Respiratory irritation<br>Cancer<br>Acute toxicity                                       |
| Ethylene oxide                              | Skin sensitization<br>Reproductive toxicity<br>Mutagenicity<br>Eye irritation<br>Acute toxicity<br>respiratory tract irritation<br>Cancer<br>Skin irritation<br>Flammability<br>Central nervous system |

**CERCLA Hazardous Substance List (40 CFR 302.4):**

| <u>Chemical Identity</u>                    | <u>Reportable quantity</u> |
|---|----------------------------|
| Ammonium hydroxide                          | 1000 lbs.                  |
| n-(3,4-dichlorophenyl)-<br>n,n-dimethylurea | 100 lbs.                   |
| Methyl benzimidazole-2-<br>yl carbamate     | 10 lbs.                    |
| Ammonia                                     | 100 lbs.                   |
| Acrylamide                                  | 5000 lbs.                  |
| Acrylonitrile                               | 100 lbs.                   |
| Acetaldehyde                                | 1000 lbs.                  |
| p-Dioxane                                   | 100 lbs.                   |
| Ethylene oxide                              | 10 lbs.                    |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Delayed (Chronic) Health Hazard



### SARA 302 Extremely Hazardous Substance

| <u>Chemical Identity</u> | <u>Reportable quantity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|----------------------------|------------------------------------|
| Ammonia                  | 100 lbs.                   | 500 lbs.                           |
| Acrylamide               | 5000 lbs.                  | - - -                              |
| Acrylonitrile            | 100 lbs.                   | 10000 lbs.                         |
| Ethylene oxide           | 10 lbs.                    | 1000 lbs.                          |

### SARA 304 Emergency Release Notification

| <u>Chemical Identity</u>                    | <u>Reportable quantity</u> |
|---|----------------------------|
| Zinc oxide                                  |                            |
| Ammonium hydroxide                          | 1000 lbs.                  |
| n-(3,4-dichlorophenyl)-<br>n,n-dimethylurea | 100 lbs.                   |
| Methyl benzimidazole-2-<br>yl carbamate     | 10 lbs.                    |
| Ammonia                                     | 100 lbs.                   |
| Phthalocyanine green                        |                            |
| Acrylamide                                  | 5000 lbs.                  |
| Acrylonitrile                               | 100 lbs.                   |
| Acetaldehyde                                | 1000 lbs.                  |
| p-Dioxane                                   | 100 lbs.                   |
| Ethylene oxide                              | 10 lbs.                    |

### SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u>                    | <u>Threshold Planning Quantity</u> |
|---|------------------------------------|
| Ammonia                                     | 500lbs                             |
| Acrylamide                                  | 500lbs                             |
| Acrylonitrile                               | 500lbs                             |
| Ethylene oxide                              | 500lbs                             |
| Calcium carbonate                           | 10000 lbs                          |
| Titanium dioxide                            | 10000 lbs                          |
| Propylene glycol                            | 10000 lbs                          |
| Zinc oxide                                  | 10000 lbs                          |
| Cellulose                                   | 10000 lbs                          |
| Clay  | 10000 lbs                          |
| Magnesite                                   | 10000 lbs                          |
| Aluminum oxide                              | 10000 lbs                          |
| Trade Secret                                | 10000 lbs                          |
| Crystalline Silica (Quartz)/<br>Silica Sand | 10000 lbs                          |
| Iron oxide                                  | 10000 lbs                          |
| Ammonium hydroxide                          | 10000 lbs                          |

### SARA 313 (TRI Reporting)

| <u>Chemical Identity</u> |
|--------------------------|
| Zinc oxide               |

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Ammonia                  | lbs                        |
| Ammonia                  | lbs                        |
| Acrylonitrile            | lbs                        |
| Acetaldehyde             | lbs                        |
| Ethylene oxide           | lbs                        |

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

|   |                                    |
|---|------------------------------------|
| Titanium dioxide                            | Carcinogenic. 09 2011              |
| Crystalline Silica (Quartz)/<br>Silica Sand | Carcinogenic. 09 2011              |
| n-(3,4-dichlorophenyl)-n,n-<br>dimethylurea | Carcinogenic. 09 2011              |
| Carbon Black                                | Carcinogenic. 09 2011              |
| Acrylamide                                  | Carcinogenic. 09 2011              |
| Acrylamide                                  | Male reproductive toxin. 09 2011   |
| Acrylamide                                  | Developmental toxin. 09 2011       |
| n-Methylacrylamide                          | Carcinogenic. 09 2011              |
| Acrylonitrile                               | Carcinogenic. 09 2011              |
| Acetaldehyde                                | Carcinogenic. 09 2011              |
| p-Dioxane                                   | Carcinogenic. 09 2011              |
| Ethylene oxide                              | Carcinogenic. 09 2011              |
| Ethylene oxide                              | Female reproductive toxin. 09 2011 |
| Ethylene oxide                              | Male reproductive toxin. 09 2011   |
| Ethylene oxide                              | Developmental toxin. 09 2011       |

**US. New Jersey Worker and Community Right-to-Know Act****Chemical Identity**Calcium carbonate  
Titanium dioxide  
Propylene glycol  
Zinc oxide  
Cellulose  
Crystalline Silica (Quartz)/ Silica Sand**US. Massachusetts RTK - Substance List****Chemical Identity**Calcium carbonate  
Titanium dioxide  
Zinc oxide  
Cellulose  
Crystalline Silica (Quartz)/ Silica Sand  
Ammonia  
Acrylamide  
Acrylonitrile**US. Pennsylvania RTK - Hazardous Substances****Chemical Identity**Calcium carbonate  
Titanium dioxide  
Propylene glycol  
Zinc oxide  
Cellulose

## US. Rhode Island RTK

### Chemical Identity

Calcium carbonate  
Titanium dioxide  
Propylene glycol  
Zinc oxide  
Cellulose

## International regulations

### Montreal protocol

not applicable

### Stockholm convention

not applicable

### Rotterdam convention

not applicable

### Kyoto protocol

not applicable

### VOC:

Regulatory VOC (less water and  
exempt solvent) : 20 g/l

VOC Method 310 : 0.90 %

**Inventory Status:**

|  |  |
|--|--|
| Australia AICS:                          | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada DSL Inventory List:               | One or more components in this product are not listed on or exempt from the Inventory. |
| EINECS, ELINCS or NLP:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | One or more components in this product are not listed on or exempt from the Inventory. |
| Korea Existing Chemicals Inv. (KECI):    | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada NDSL Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| New Zealand Inventory of Chemicals:      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan ISHL Listing:                      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing:             | One or more components in this product are not listed on or exempt from the Inventory. |
| US TSCA Inventory:                       | All components in this product are listed on or exempt from the Inventory.             |
| Mexico INSQ:                             | One or more components in this product are not listed on or exempt from the Inventory. |
| Ontario Inventory:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| Taiwan Chemical Substance Inventory:     | One or more components in this product are not listed on or exempt from the Inventory. |

**16. Other information, including date of preparation or last revision****Revision Date:** 04/18/2017**Version #:** 1.1**Further Information:** No data available.**Disclaimer:** For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

