

# SAFETY DATA SHEET

## 1. Identification

**Material name:** SPECTREM 3 ALUMINUM STONE - 30 CTG  
**Material:** 998851 323

### Recommended use and restriction on use

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

### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S Sealants  
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

|                        |             |
|------------------------|-------------|
| Respiratory sensitizer | Category 1  |
| Carcinogenicity        | Category 1A |
| Toxic to reproduction  | Category 1B |

#### Unknown toxicity - Health

|  |         |
|--|---------|
| Acute toxicity, oral                     | 1.54 %  |
| Acute toxicity, dermal                   | 3.85 %  |
| Acute toxicity, inhalation, vapor        | 97.16 % |
| Acute toxicity, inhalation, dust or mist | 96.78 % |

### Environmental Hazards

|  |            |
|--|------------|
| Acute hazards to the aquatic environment | Category 2 |
|--|------------|

#### Unknown toxicity - Environment

|  |         |
|--|---------|
| Acute hazards to the aquatic environment   | 83.84 % |
| Chronic hazards to the aquatic environment | 97.2 %  |

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause cancer.  
May damage fertility or the unborn child.  
Toxic to aquatic life.

**Precautionary Statements**

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. [In case of inadequate ventilation] wear respiratory protection. 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 INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... 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% |
| Butyl benzyl phthalate                   | 85-68-7    | 5 - <10%  |
| Diisodecyl phthalate                     | 26761-40-0 | 1 - <5%   |
| Calcium oxide                            | 1305-78-8  | 1 - <5%   |
| Vinyltrimethoxysilane                    | 2768-02-7  | 1 - <5%   |
| Hexamethyldisilazane                     | 999-97-3   | 0.1 - <1% |
| Titanium dioxide                         | 13463-67-7 | 0.1 - <1% |
| Stearic acid                             | 57-11-4    | 0.1 - <1% |
| Tosyl isocyanate                         | 4083-64-1  | 0.1 - <1% |
| Hydrotreated heavy naphthenic distillate | 64742-52-5 | 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**

- Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- Inhalation:** Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.
- Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye contact:** 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:** Ventilate closed spaces before entering them. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up:** 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:** Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

**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/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium carbonate - Respirable fraction. | PEL  | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Calcium oxide                            | 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) |
| Titanium dioxide                         | TWA  | 10 mg/m3                                       | US. ACGIH Threshold Limit Values (2011)                                     |
| Titanium dioxide - Total dust.           | PEL  | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Titanium dioxide - Respirable fraction.  | 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/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)                             |
| Titanium dioxide - Respirable fraction.                        | TWA | 5 mg/m3  | 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)                             |
| Stearic acid - Respirable fraction.                            | TWA | 3 mg/m3  | US. ACGIH Threshold Limit Values (03 2017)                                  |
| Stearic acid - Inhalable fraction.                             | TWA | 10 mg/m3                                       | US. ACGIH Threshold Limit Values (03 2017)                                  |
| Hydrotreated heavy naphthenic distillate - Inhalable fraction. | TWA | 5 mg/m3  | US. ACGIH Threshold Limit Values (03 2014)                                  |
| Hydrotreated heavy naphthenic distillate                       | PEL | 500 ppm 2,000 mg/m3                            | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| Hydrotreated heavy naphthenic distillate - Mist.               | PEL | 5 mg/m3  | US. OSHA Table Z-1 Limits for Air 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) (09 2017)  |
| Diisodecyl phthalate   | TWA  | 5 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Calcium oxide  | 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) |
| Calcium oxide  | TWA  | 2 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Calcium oxide  | TWA  | 2 mg/m <sup>3</sup>         | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Vinyltrimethoxysilane  | STEL | 10 ppm 60 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. 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) (09 2017)  |
| Hydrotreated heavy naphthenic distillate - Mist.               | TWA  | 0.2 mg/m <sup>3</sup>       | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
|  | TWA  | 1 mg/m <sup>3</sup>         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Hydrotreated heavy naphthenic distillate - Inhalable fraction. | TWA  | 5 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
|  | TWA  | 5 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Hydrotreated heavy naphthenic distillate - Mist.               | STEL | 10 mg/m <sup>3</sup>        | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|  | TWA  | 5 mg/m <sup>3</sup>         | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |

| 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) (09 2017)  |
| Diisodecyl phthalate   | TWA  | 5 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Calcium oxide  | 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) |
| Calcium oxide  | TWA  | 2 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Calcium oxide  | TWA  | 2 mg/m <sup>3</sup>         | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Vinyltrimethoxysilane  | STEL | 10 ppm 60 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. 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) (09 2017)  |
| Stearic acid   | 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) |
| Stearic acid   | TWA  | 10 mg/m <sup>3</sup>        | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Hydrotreated heavy naphthenic distillate - Mist.               | TWA  | 0.2 mg/m <sup>3</sup>       | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
|  | TWA  | 1 mg/m <sup>3</sup>         | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Hydrotreated heavy naphthenic distillate - Inhalable fraction. | TWA  | 5 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
|  | TWA  | 5 mg/m <sup>3</sup>         | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |

|  |      |           |   |
|--|------|-----------|---|
| Hydrotreated heavy naphthenic distillate - Mist. | STEL | 10 mg/m3  | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|  | TWA  | 5 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Carbon Black - Inhalable                         | TWA  | 3 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011) |
| Carbon Black - Inhalable fraction.               | TWA  | 3 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Carbon Black                                     | TWA  | 3.5 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Aluminum oxide - Respirable.                     | TWA  | 1 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Aluminum oxide - 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) (05 2013) |
| Aluminum oxide - 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) (05 2013) |
| Aluminum oxide - Respirable fraction.            | TWA  | 1 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Aluminum oxide - Inhalable fraction.             | TWA  | 10 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Aluminum oxide - Respirable fraction.            | TWA  | 3 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Aluminum oxide - Total dust. - as Al             | TWA  | 10 mg/m3  | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Trade Secret - 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) (05 2013) |
| Trade Secret - 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) (05 2013) |
| Trade Secret - Inhalable fraction.               | TWA  | 10 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Trade Secret - Respirable fraction.              | TWA  | 3 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)  |
| Trade Secret - Total dust.                       | TWA  | 10 mg/m3  | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |



|                                     |      |           |   |
|-------------------------------------|------|-----------|---|
| Iron oxide - 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) |
| Iron oxide - Dust. - as Fe          | TWA  | 5 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Fume. - as Fe          | STEL | 10 mg/m3  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - 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) |
| Iron oxide - Fume. - as Fe          | TWA  | 5 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Iron oxide - Respirable fraction.   | TWA  | 5 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Iron oxide - Total dust.            | TWA  | 10 mg/m3  | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Iron oxide - Dust and fume. - as Fe | TWA  | 5 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Dibutyltin diacetate - as Sn        | STEL | 0.2 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                     | TWA  | 0.1 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Dibutyltin diacetate - as Sn        | TWA  | 0.1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Dibutyltin diacetate - as Sn        | TWA  | 0.1 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|                                     | STEL | 0.2 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Dibutyl phthalate                   | TWA  | 5 mg/m3   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Dibutyl phthalate                   | TWA  | 5 mg/m3   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Dibutyl phthalate                   | TWA  | 5 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Methanol                            | STEL | 250 ppm   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                     | TWA  | 200 ppm   | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Methanol                            | STEL | 250 ppm   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|                                     | TWA  | 200 ppm   | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |

|   |      |                     |   |
|---|------|---------------------|---|
| Methanol  | STEL | 250 ppm 328 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|   | TWA  | 200 ppm 262 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Amorphous silica - Total  | TWA  | 4 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Amorphous silica - Respirable.                                  | TWA  | 1.5 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Amorphous silica - Respirable dust.                             | TWA  | 6 mg/m3             | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Zirconium dioxide - as Zr                                       | STEL | 10 mg/m3            | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|   | TWA  | 5 mg/m3             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Zirconium dioxide - as Zr                                       | TWA  | 5 mg/m3             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|   | STEL | 10 mg/m3            | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Zirconium dioxide - as Zr                                       | TWA  | 5 mg/m3             | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|   | STEL | 10 mg/m3            | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Cyclohexane   | TWA  | 100 ppm             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Cyclohexane   | TWA  | 100 ppm             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Cyclohexane   | TWA  | 300 ppm 1,030 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)  |
| Crystalline Silica (Quartz)/ 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)/ 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)/ Silica Sand - Respirable dust.     | TWA  | 0.1 mg/m3           | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Dibutyl tin dilaurate - as Sn                                   | STEL | 0.2 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|   | TWA  | 0.1 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |

|                               |      |                 |   |
|-------------------------------|------|-----------------|---|
| Dibutyl tin dilaurate - as Sn | TWA  | 0.1 mg/m3       | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Dibutyl tin dilaurate - as Sn | STEL | 0.2 mg/m3       | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|                               | TWA  | 0.1 mg/m3       | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
| Acetic acid                   | STEL | 15 ppm          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                               | TWA  | 10 ppm          | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Acetic acid                   | STEL | 15 ppm          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
|                               | TWA  | 10 ppm          | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)  |
| Acetic acid                   | TWA  | 10 ppm 25 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |
|                               | STEL | 15 ppm 37 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)  |

**Appropriate Engineering Controls**

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

**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:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Hygiene measures:**

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

**9. Physical and chemical properties****Appearance**

|  |   |
|--|---|
| <b>Physical state:</b>                                       | solid   |
| <b>Form:</b>   | Paste   |
| <b>Color:</b>  | Gray  |
| <b>Odor:</b>   | Mild sharp  |
| <b>Odor threshold:</b>                                       | No data available.  |
| <b>pH:</b>   | No data available.  |
| <b>Melting point/freezing point:</b>                         | No data available.  |
| <b>Initial boiling point and boiling range:</b>              | No data available.  |
| <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>                                     | 1.42  |
| <b>Solubility(ies)</b>                                       |   |
| <b>Solubility in water:</b>                                  | Practically Insoluble   |
| <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>             | Alcohols. Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases. Water, moisture. |

**Hazardous Decomposition Products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** May be harmful in contact with skin. Causes mild skin irritation.

**Eye contact:** Eye contact is possible and should be avoided.

**Ingestion:** May be harmful if swallowed.

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

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

**Oral**  
**Product:** ATEmix: 27,404.77 mg/kg

**Dermal**  
**Product:** ATEmix: 55,759.43 mg/kg

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

**Specified substance(s):**

|  |                                      |
|--|--------------------------------------|
| Diisodecyl phthalate                     | LC 50 (Rat): > 12.54 mg/l            |
| Hexamethyldisilazane                     | LC 50 (Rat): 8,700 mg/m <sup>3</sup> |
| Titanium dioxide                         | LC 50 (Rat): 3.43 mg/l               |
| Hydrotreated heavy naphthenic distillate | LC 50 (Rat): 9.6 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                              |
| Butyl benzyl phthalate                   | in vivo (Rabbit): Not irritant Experimental result, Key study                              |
| Vinyltrimethoxysilane                    | in vivo (Rabbit): Not irritant Experimental result, Key study                              |
| Hexamethyldisilazane                     | Irritating<br>in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study |
| Titanium dioxide                         | in vivo (Rabbit): Not irritant Experimental result, Supporting study                       |
| Stearic acid                             | in vivo (Rabbit): Not irritant Experimental result, Key study                              |
| Hydrotreated heavy naphthenic distillate | in vivo (Rabbit): Not irritant Experimental result, Key study                              |

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

|  |                                     |
|--|-------------------------------------|
| Calcium carbonate                        | Rabbit, 24 - 72 hrs: Not irritating |
| Butyl benzyl phthalate                   | Rabbit, 24 - 72 hrs: Not irritating |
| Vinyltrimethoxysilane                    | Rabbit: Not irritating              |
| Hexamethyldisilazane                     | Rabbit, 24 - 72 hrs: Not irritating |
| Titanium dioxide                         | Rabbit, 24 hrs: Not irritating      |
| Stearic acid                             | Rabbit, 27 - 72 hrs: Not irritating |
| Hydrotreated heavy naphthenic distillate | Rabbit, 24 hrs: Not irritating      |

**Respiratory or Skin Sensitization****Product:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause sensitization by inhalation.**Carcinogenicity****Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

|  |   |
|--|---|
| Titanium dioxide                         | Overall evaluation: Possibly carcinogenic to humans.  |
| Hydrotreated heavy naphthenic distillate | Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Carcinogenic to humans. |

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

|  |                               |
|--|-------------------------------|
| Hydrotreated heavy naphthenic distillate | Known To Be Human Carcinogen. |
|--|-------------------------------|

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

No carcinogenic components identified

**Germ Cell Mutagenicity**

|                 |                    |
|-----------------|--------------------|
| <b>In vitro</b> |                    |
| <b>Product:</b> | No data available. |

|                 |                    |
|-----------------|--------------------|
| <b>In vivo</b>  |                    |
| <b>Product:</b> | No data available. |

**Reproductive toxicity**

|                 |   |
|-----------------|---|
| <b>Product:</b> | May damage fertility or the unborn child. |
|-----------------|---|

**Specific Target Organ Toxicity - Single Exposure**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Specific Target Organ Toxicity - Repeated Exposure**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

**Aspiration Hazard**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

|                       |                    |
|-----------------------|--------------------|
| <b>Other effects:</b> | No data available. |
|-----------------------|--------------------|

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

|                 |                    |
|-----------------|--------------------|
| <b>Fish</b>     |                    |
| <b>Product:</b> | No data available. |

**Specified substance(s):**

Butyl benzyl phthalate LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1.39 - 3.88 mg/l Mortality

Diisodecyl phthalate LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 0.47 mg/l Mortality

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Butyl benzyl phthalate EC 50 (Water flea (Daphnia magna), 48 h): > 10 mg/l Intoxication  
 EC 50 (Opossum shrimp (Americamysis bahia), 48 h): > 0.9 mg/l Mortality  
 EC 50 (Water flea (Daphnia magna), 24 h): > 10 mg/l Intoxication  
 EC 50 (Water flea (Daphnia magna), 21 d): > 0.76 mg/l Intoxication  
 EC 50 (Water flea (Daphnia magna), 14 d): > 0.76 mg/l Intoxication

Diisodecyl phthalate EC 50 (Opossum shrimp (Americamysis bahia), 96 h): > 0.08 mg/l Mortality

Titanium dioxide EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Butyl benzyl phthalate NOAEL (Pimephales promelas, 126 d): 64.6 - 67.5 µg/l Experimental result, Key study  
 NOAEL (Oncorhynchus mykiss, 124 d): 0.2 mg/l Experimental result, Key study  
 LOAEL (Pimephales promelas, 126 d): 18.1 µg/l Experimental result, Key study  
 LC 50 (Pimephales promelas, 4 d): 2.32 mg/l Experimental result, Supporting study  
 LC 50 (Pimephales promelas, 14 d): 2.25 mg/l Experimental result, Supporting study

Hydrotreated heavy naphthenic distillate NOAEL (Oncorhynchus mykiss, 14 d): >= 1,000 mg/l QSAR QSAR, Supporting study

**Aquatic Invertebrates**

**Product:** No data available.

**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):**

Butyl benzyl phthalate Bluegill (*Lepomis macrochirus*), Bioconcentration Factor (BCF): 772 (Flow through)

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

**Product:** No data available.

**Specified substance(s):**

Butyl benzyl phthalate Log Kow: 4.91

Hexamethyldisilazane Log Kow: 2.62

Stearic acid Log Kow: 8.23

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

**Other adverse effects:** Toxic 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:**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Butyl Benzyl Phthalate), 9, PG III, MARINE POLLUTANT

**Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

**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 |

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

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Butyl benzyl phthalate   | 100 lbs.                   |
| Dibutyl phthalate        | 10 lbs.                    |
| Methanol                 | 5000 lbs.                  |
| Cyclohexane              | 1000 lbs.                  |
| Acetic acid              | 5000 lbs.                  |

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

**Hazard categories**

Delayed (Chronic) Health Hazard  
Respiratory or Skin Sensitization  
Carcinogenicity  
Reproductive toxicity

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

| <u>Chemical Identity</u>           | <u>Reportable quantity</u> |
|------------------------------------|----------------------------|
| Butyl benzyl phthalate             | 100 lbs.                   |
| Diisodecyl phthalate               |                            |
| Dibutyl phthalate                  | 10 lbs.                    |
| Diisodecyl phthalate<br>(mixed Is) |                            |
| Methanol                           | 5000 lbs.                  |
| Cyclohexane                        | 1000 lbs.                  |
| Acetic acid                        | 5000 lbs.                  |

## SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u>                 | <u>Threshold Planning Quantity</u> |
|--|------------------------------------|
| Calcium carbonate                        | 10000 lbs                          |
| Butyl benzyl phthalate                   | 10000 lbs                          |
| Diisodecyl phthalate                     | 10000 lbs                          |
| Calcium oxide                            | 10000 lbs                          |
| Vinyltrimethoxysilane                    | 10000 lbs                          |
| Hexamethyldisilazane                     | 10000 lbs                          |
| Titanium dioxide                         | 10000 lbs                          |
| Stearic acid                             | 10000 lbs                          |
| Tosyl isocyanate                         | 10000 lbs                          |
| Hydrotreated heavy naphthenic distillate | 10000 lbs                          |

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

## 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



#### WARNING

Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Calcium carbonate  
Butyl benzyl phthalate  
Calcium oxide  
Hydrotreated heavy naphthenic distillate

### US. Massachusetts RTK - Substance List

#### Chemical Identity

Calcium carbonate  
Butyl benzyl phthalate  
Crystalline Silica (Quartz)/ Silica Sand

### US. Pennsylvania RTK - Hazardous Substances

#### Chemical Identity

Calcium carbonate  
Butyl benzyl phthalate  
Diisodecyl phthalate  
Calcium oxide

### US. Rhode Island RTK

#### Chemical Identity

Calcium carbonate

## 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) : 13 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:               | All components in this product are 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. |
| US TSCA Inventory:                       | All components in this product are 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. |
| Ontario Inventory:                       | One or more components in this product are not 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. |
| Taiwan Chemical Substance Inventory:     | One or more components in this product are not listed on or exempt from the Inventory. |

|  |
|--|
| <b>16. Other information, including date of preparation or last revision</b> |
|--|

**Revision Date:** 03/08/2019

**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.