



SAFETY DATA SHEET

## SP-2888<sup>®</sup> R.G. Mini Cartridge Base

Date of Preparation: March 7, 2019

### Section 1: IDENTIFICATION

**Product Name:** SP-2888<sup>®</sup> R.G. Mini Cartridge Base  
**Product Identifier:** PART "A" BASE  
**Product Code:** 850-296  
**Detail:** Epoxy/Urethane. White.  
**Product Use:** Exterior coating for pipelines.  
**Restrictions on Use:** Not available.  
**Manufacturer/Supplier:** Specialty Polymer Coatings, Inc.  
48 Bury Court  
Brantford, ON, N3S 0B1  
Canada  
**24 Hour Emergency Phone:** In Canada, call CANUTEC: 1-613-996-6666  
In USA, call CHEMTREC: 1-800-424-9300  
**Date of Preparation of SDS:** March 7, 2019

### Section 2: HAZARD(S) IDENTIFICATION

#### GHS INFORMATION

**Classification:** Skin Irritation, Category 2  
Eye Irritation, Category 2A  
Sensitization - Skin, Category 1  
Carcinogenicity, Category 1A  
Specific Target Organ Toxicity (Repeated Exposure), Category 1

#### LABEL ELEMENTS

**Hazard**

**Pictogram(s):**



**Signal Word:** Danger

**Hazard Statements:** Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
May cause cancer.  
Causes damage to organs through prolonged or repeated exposure.

#### Precautionary Statements

**Prevention:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe mist, vapours, or spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves, protective clothing and eye protection.



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**Response:** IF ON SKIN: Wash with plenty of water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 Get medical advice/attention if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

**Hazards Not Otherwise Classified:** Not applicable.

**Ingredients with Unknown Toxicity:** 70% of this product mixture consists of ingredient(s) of unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

| <b>Hazardous Ingredient(s)</b>                                                                                                                    | <b>Common name / Synonyms</b>                                                                   | <b>CAS No.</b> | <b>% wt./wt.</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|------------------|
| Oxirane, 2,2'-((1-methylethylidene)bis(4,1-phenyleneoxymethylene))bis-, homopolymer                                                               | Not available.                                                                                  | 25085-99-8     | 50 - 53          |
| Phenol, polymer with formaldehyde, glycidyl ether                                                                                                 | Not available.                                                                                  | 28064-14-4     | 5 - 8            |
| Titanium oxide (TiO <sub>2</sub> )                                                                                                                | Titanium dioxide                                                                                | 13463-67-7     | 5 - 7            |
| Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-                                                                               | Neopentyl glycol diglycidyl ether                                                               | 17557-23-2     | 3 - 5            |
| Quartz (SiO <sub>2</sub> )                                                                                                                        | Quartz                                                                                          | 14808-60-7     | 1 - 3            |
| 2-Propenenitrile, polymer with 1,3-butadiene, carboxy-terminated, polymer with 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis[oxirane] | Neopentylglycol glycidyl ether, carboxy terminated copolymer of acrylonitrile, butadiene adduct | 68909-14-8     | 1 - 3            |



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|                                                                                                          |                                        |            |       |
|----------------------------------------------------------------------------------------------------------|----------------------------------------|------------|-------|
| Oxirane, 2,2'-[1,4-cyclohexanediylbis (methylenedioxy)methylene]bis-                                     | 1,4-Bis(glycidyloxymethyl) cyclohexane | 14228-73-0 | 1 - 3 |
| Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-(2-oxiranylmethoxy)- | Not available.                         | 37237-76-6 | 1 - 2 |

**Section 4: FIRST-AID MEASURES**

- Inhalation:** If inhaled: Call a poison center or doctor if you feel unwell.
- Acute and delayed symptoms and effects:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. As supplied, inhalation of titanium dioxide or quartz from this product is unlikely. After installation and drying, activities such as grinding or sanding of material may generate airborne dust. Inhalation of Titanium dioxide may cause blood changes. Acute pneumoconiosis from overwhelming exposure to Silica (Quartz, SiO<sub>2</sub>) dust has occurred. Coughing and irritation of throat are early symptoms.
- Eye Contact:** If in eyes: Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Acute and delayed symptoms and effects:** Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- Skin Contact:** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Acute and delayed symptoms and effects:** May cause an allergic skin reaction. Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
- Ingestion:** If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- Acute and delayed symptoms and effects:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Ingestion of Titanium dioxide may cause ataxia (failure of muscular coordination), increased blood pressure, hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors.



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**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

**Section 5: FIRE-FIGHTING MEASURES**

**FLAMMABILITY AND EXPLOSION INFORMATION**

Not flammable or combustible by OSHA/WHMIS criteria.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

**Sensitivity to Static Discharge:** This material is not sensitive to static discharge.

**MEANS OF EXTINCTION**

**Suitable Extinguishing Media:** Small Fire: Dry chemical, CO2, water spray or regular foam.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** Oxides of carbon. Oxides of nitrogen. Aldehydes. Hydrogen chloride. Nitrogen. Chlorine.

**Protection of Firefighters:** Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures:** Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

**Personal Precautions:** Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways.

**Methods for Containment:** Stop leak if without risk. Do not flush to sewer or allow to enter waterways.

**Methods for Clean-Up:** Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Other Information:** See Section 13 for disposal considerations.

**Section 7: HANDLING AND STORAGE**

**Handling:**

Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapours, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing



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should not be allowed out of the workplace. See Section 8 for information on Personal Protective Equipment.

**Storage:**

Store locked up. The acceptable shipping and storage temperature range is between 5 °C (41 °F) and 50 °C (122 °F). Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

**Component**

Oxirane, 2,2'-((1-methylethylidene)bis(4,1-phenyleneoxymethylene))bis-, homopolymer [CAS No. 25085-99-8]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

Phenol, polymer with formaldehyde, glycidyl ether [CAS No. 28064-14-4]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

Titanium dioxide [CAS No. 13463-67-7]

**ACGIH:** 10 mg/m<sup>3</sup> (TWA); A4 (1992)

**OSHA:** 15 mg/m<sup>3</sup> (Total dust) (TWA);  
10 mg/m<sup>3</sup> (TWA) (Total dust) [Vacated];

Neopentyl glycol diglycidyl ether [CAS No. 17557-23-2]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

Quartz [CAS No. 14808-60-7]

**ACGIH:** 0.025 mg/m<sup>3</sup> (TWA); A2; Respirable fraction (2009)

**OSHA:** 30 / (%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> Quartz (Total dust) (TWA), 10 / (%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> Quartz (Respirable) & 250 / (%SiO<sub>2</sub> + 5) mppcf Quartz (Respirable) (TWA); See Table Z3. 0.1 mg/m<sup>3</sup> (As respirable quartz) (TWA) [Vacated];

Neopentylglycol glycidyl ether, carboxy terminated copolymer of acrylonitrile, butadiene adduct [CAS No. 68909-14-8]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

1,4-Bis(glycidylloxymethyl)cyclohexane [CAS No. 14228-73-0]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.

Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-(2-oxiranylmethoxy)- [CAS No. 37237-76-6]

**ACGIH:** No TLV established.

**OSHA:** No PEL established.



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**Engineering Controls:**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**



**Eye/Face Protection:**

Wear chemical safety glasses, goggles, and/or full face shield. Ensure that eyewash stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

**Hand Protection:**

Chemical resistant gloves with a long cuff that will overlap the clothing sleeves should be worn when handling this product. The glove/clothing overlaps should be sealed by tape. Check with the glove manufacturer to determine the proper glove type.

**Skin and Body Protection:**

Long-sleeved protective clothing is to be worn over regular clothing to cover all exposed areas of arms, legs or torso during mixing and application of the coating. Breathable clothing, such as cotton or disposable coveralls, is recommended.

**Respiratory Protection:**

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

**Other:**

A barrier cream may be used in conjunction with Personal Protective Equipment as an additional safeguard against skin contact.



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**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices. Specialty Polymer Coatings, Inc. has consulted a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection. These measures are reflected in our comprehensive training of customer employees.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                                |                                                  |
|------------------------------------------------|--------------------------------------------------|
| <b>Appearance:</b>                             | White viscous liquid.                            |
| <b>Colour:</b>                                 | White.                                           |
| <b>Odour:</b>                                  | Odourless.                                       |
| <b>Odour Threshold:</b>                        | Not available.                                   |
| <b>Physical State:</b>                         | Liquid.                                          |
| <b>pH:</b>                                     | Not available.                                   |
| <b>Melting Point / Freezing Point:</b>         | Not available.                                   |
| <b>Initial Boiling Point:</b>                  | > 300 °C (572 °F)                                |
| <b>Boiling Range:</b>                          | Not available.                                   |
| <b>Flash Point:</b>                            | > 100 °C (212 °F) (SFCC)                         |
| <b>Evaporation Rate:</b>                       | Not available.                                   |
| <b>Flammability (solid, gas):</b>              | Not applicable.                                  |
| <b>Lower Flammability Limit:</b>               | Not available.                                   |
| <b>Upper Flammability Limit:</b>               | Not available.                                   |
| <b>Vapour Pressure:</b>                        | Not available.                                   |
| <b>Vapour Density:</b>                         | Not available.                                   |
| <b>Relative Density:</b>                       | 1.412 (Water = 1) at 25 °C (77 °F)               |
| <b>Solubilities:</b>                           | Negligible solubility in water at 20 °C (68 °F). |
| <b>Partition Coefficient: n-Octanol/Water:</b> | Not available.                                   |
| <b>Auto-ignition Temperature:</b>              | Not available.                                   |
| <b>Decomposition Temperature:</b>              | Not available.                                   |
| <b>Viscosity:</b>                              | Not available.                                   |
| <b>Percent Volatile, wt. %:</b>                | Not available.                                   |



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**VOC content, wt. %:** Not available.  
**Density:** Not available.  
**Coefficient of Water/Oil Distribution:** Not available.

**Section 10: STABILITY AND REACTIVITY**

**Reactivity:** Contact with incompatible materials. Sources of ignition. Exposure to heat.  
**Chemical Stability:** Stable under normal storage conditions.  
**Possibility of Hazardous Reactions:** None known.  
**Conditions to Avoid:** Contact with incompatible materials. Sources of ignition. Exposure to heat.  
**Incompatible Materials:** Acids. Bases. Strong oxidizers. Hydrofluoric acid. Fluorine containing compounds. Amines. Sulfuric acid. Dichromate.  
**Hazardous Decomposition Products:** Not available.

**Section 11: TOXICOLOGICAL INFORMATION**

**EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity**

**Oral:** Not available.  
**Dermal:** Not available.  
**Inhalation:** Not available.

**Component Toxicity**

| Component                                                                             | CAS No.    | LD <sub>50</sub> oral | LD <sub>50</sub> dermal | LC <sub>50</sub>                   |
|---------------------------------------------------------------------------------------|------------|-----------------------|-------------------------|------------------------------------|
| Oxirane, 2,2'-((1-methylethylidene) bis(4,1-phenyleneoxymethylene)) bis-, homopolymer | 25085-99-8 | Not available.        | Not available.          | Not available.                     |
| Phenol, polymer with formaldehyde, glycidyl ether                                     | 28064-14-4 | Not available.        | Not available.          | Not available.                     |
| Titanium dioxide                                                                      | 13463-67-7 | Not available.        | Not available.          | Not available.                     |
| Neopentyl glycol diglycidyl ether                                                     | 17557-23-2 | 4500 mg/kg (rat)      | Not available.          | Not available.                     |
| Quartz                                                                                | 14808-60-7 | Not available.        | Not available.          | 0.3 mg/m <sup>3</sup> (human); 10Y |



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|                                                                                                           |            |                |                |                |
|-----------------------------------------------------------------------------------------------------------|------------|----------------|----------------|----------------|
| Neopentylglycol glycidyl ether, carboxy terminated copolymer of acrylonitrile, butadiene adduct           | 68909-14-8 | Not available. | Not available. | Not available. |
| 1,4-Bis(glycidylloxymethyl) cyclohexane                                                                   | 14228-73-0 | Not available. | Not available. | Not available. |
| Poly(oxy(methyl-1,2-ethanediyl)), alpha,alpha',alpha''-1,2,3-propanetriyltris(omega-(2-oxiranyl-methoxy)- | 37237-76-6 | Not available. | Not available. | Not available. |

**Likely Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs.

**Symptoms (including delayed and immediate effects)**

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. As supplied, inhalation of titanium dioxide or quartz from this product is unlikely. After installation and drying, activities such as grinding or sanding of material may generate airborne dust. Inhalation of Titanium dioxide may cause blood changes. Acute pneumoconiosis from overwhelming exposure to Silica (Quartz, SiO<sub>2</sub>) dust has occurred. Coughing and irritation of throat are early symptoms.

**Eye:** Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin:** May cause an allergic skin reaction. Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Ingestion of Titanium dioxide may cause ataxia (failure of muscular coordination), increased blood pressure, hallucinations, hypermotility, muscle contraction/spasticity, fatigue, psychosis, and tremors.

**Skin Sensitization:** Hazardous by OSHA/WHMIS criteria. May cause sensitization through skin contact.

**Respiratory Sensitization:** Not available.

**Medical Conditions Aggravated By Exposure:** Not available.



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**EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)**

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Blood.

**Chronic Effects:** Hazardous by OSHA/WHMIS criteria. May cause chronic effects. Prolonged or repeated contact may dry skin and cause irritation. As supplied, inhalation of titanium dioxide or quartz from this product is unlikely. After installation and drying, activities such as grinding or sanding of material may generate airborne dust. Prolonged or repeated exposure to Titanium dioxide may cause lung irritation, chest pain, and pulmonary edema. Repeated exposure to Silica (Quartz, SiO<sub>2</sub>) can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.

**Carcinogenicity:** May cause cancer. Respirable Silica (Quartz, SiO<sub>2</sub>) dust is classified as a human carcinogen.

**Component Carcinogenicity**

| Component        | ACGIH | IARC     | NTP         | OSHA             | Prop 65 |
|------------------|-------|----------|-------------|------------------|---------|
| Titanium dioxide | A4    | Group 2B | Not listed. | OSHA Carcinogen. | Listed. |
| Quartz           | A2    | Group 1  | List 1      | OSHA Carcinogen. | Listed. |

**Mutagenicity:** Not available.

**Reproductive Effects:** Not available.

**Developmental Effects**

**Teratogenicity:** Not available.

**Embryotoxicity:** Not available.

**Toxicologically Synergistic Materials:** Not available.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

**Other Adverse Effects:** Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.



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**Section 14: TRANSPORT INFORMATION**

**U.S. Department of Transportation (DOT)**

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

**Canada Transportation of Dangerous Goods (TDG)**

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

**ICAO/IATA**

Proper Shipping Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, PG III

Class: 9

UN Number: UN3082

Packing Group: III

Label Code: 

Marine Pollutant: Yes.

**IMDG**

Proper Shipping Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, PG III

Class: 9

UN Number: UN3082

Packing Group: III

Label Code: 

Marine Pollutant: Yes.



**Section 15: REGULATORY INFORMATION**

**Chemical Inventories**

**US (TSCA)**

The components of this product are in compliance with the chemical notification requirements of TSCA.

**Canada (DSL)**

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

**Federal Regulations**

**United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SARA Title III**

No components are listed.

**State Regulations**

**Massachusetts**

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

| Component        | CAS No.    | RTK List |
|------------------|------------|----------|
| Titanium dioxide | 13463-67-7 | Listed.  |
| Quartz           | 14808-60-7 | E        |

**Note:** E = Extraordinarily Hazardous Substance

**New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

| Component        | CAS No.    | RTK List |
|------------------|------------|----------|
| Titanium dioxide | 13463-67-7 | Listed.  |
| Quartz           | 14808-60-7 | SHHS     |

**Note:** SHHS = Special Health Hazard Substance

**Pennsylvania**

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

| Component        | CAS No.    | RTK List |
|------------------|------------|----------|
| Titanium dioxide | 13463-67-7 | Listed.  |
| Quartz           | 14808-60-7 | Listed.  |



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**California  
California Prop 65:**



**WARNING** This product can expose you to chemicals including Titanium dioxide, Quartz and Methanol, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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**Section 16: OTHER INFORMATION**

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. While Specialty Polymer Coatings, Inc. believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Specialty Polymer Coatings, Inc. assumes legal responsibility. Any use of these data and information must be determined by the user to be in accordance with applicable governmental laws and regulations.

**Date of Preparation of SDS:** March 7, 2019  
**Version:** 1.5  
**GHS SDS Prepared by:** **Aegis Regulatory Inc.**  
**Phone: (519) 488-0351**  
**[www.aegisreg.com](http://www.aegisreg.com)**



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**ABBREVIATIONS USED IN PREPARING THIS SDS**

|                   |                                                                              |                  |        |
|-------------------|------------------------------------------------------------------------------|------------------|--------|
| % (Percent)       | < (Less than)                                                                | > (Greater than) | @ (at) |
| ACGIH             | American Conference of Governmental Industrial Hygienists                    |                  |        |
| ATE               | Acute Toxicity Estimate                                                      |                  |        |
| C                 | Celsius                                                                      |                  |        |
| CAS No.           | CAS Registry Number                                                          |                  |        |
| CANUTEC           | Canadian Transport Emergency Centre                                          |                  |        |
| CEIL              | Ceiling Limit                                                                |                  |        |
| CEPA, 1999        | Canadian Environmental Protection Act, 1999                                  |                  |        |
| CERCLA            | Comprehensive Environmental Response, Compensation, and Liability Act (U.S.) |                  |        |
| DOT               | Department of Transportation (U.S.)                                          |                  |        |
| F                 | Fahrenheit                                                                   |                  |        |
| g/kg              | Grams per Kilogram                                                           |                  |        |
| GHS               | Globally Harmonized System of Classification and Labelling of Chemicals      |                  |        |
| H                 | Hour                                                                         |                  |        |
| IARC              | International Agency for Research on Cancer                                  |                  |        |
| IATA              | International Air Transport Association                                      |                  |        |
| ICAO              | International Civil Aviation Organization                                    |                  |        |
| IMDG              | International Maritime Dangerous Goods Code                                  |                  |        |
| Kg                | Kilogram                                                                     |                  |        |
| Lb/gal            | Pounds per Gallon                                                            |                  |        |
| LC <sub>50</sub>  | Lethal Concentration (50% Death)                                             |                  |        |
| LD <sub>50</sub>  | Lethal Dose (50% Death)                                                      |                  |        |
| mg/kg             | Milligrams per Kilogram                                                      |                  |        |
| mg/L              | Milligrams per Litre                                                         |                  |        |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre                                                   |                  |        |
| ml/kg             | Millilitres per Kilogram                                                     |                  |        |
| mmHg              | Millimetres of Mercury                                                       |                  |        |
| mppcf             | Millions of particles per Cubic Foot                                         |                  |        |
| MSHA              | Mine Safety and Health Administration (U.S.)                                 |                  |        |
| NIOSH             | National Institute for Occupational Safety and Health                        |                  |        |
| NTP               | National Toxicology Program (U.S.)                                           |                  |        |
| N.O.S.            | Not Otherwise Specified                                                      |                  |        |
| OSHA              | Occupational Safety and Health Administration (U.S.)                         |                  |        |
| PEL               | Permissible Exposure Limit                                                   |                  |        |
| PMCC              | Pensky-Martens Closed Cup                                                    |                  |        |
| ppm               | Parts per million                                                            |                  |        |
| RCRA              | Resource Conservation and Recovery Act (U.S.)                                |                  |        |
| SARA              | Superfund Amendments and Reauthorization Act, 1986 (U.S.)                    |                  |        |
| SDS               | Safety Data Sheet                                                            |                  |        |
| SFCC              | Setaflash Closed Cup Tester                                                  |                  |        |
| STEL              | Short-Term Exposure Limit                                                    |                  |        |
| TDG               | Transportation of Dangerous Goods Regulations (Canada)                       |                  |        |
| TLV               | Threshold Limit Value                                                        |                  |        |
| TWA               | Time-Weighted Average                                                        |                  |        |
| TSCA              | Toxic Substances Control Act                                                 |                  |        |
| µL/kg             | Micro Litre per Kilogram                                                     |                  |        |
| WHMIS             | Workplace Hazardous Materials Information System (Canada)                    |                  |        |