

# Safety Data Sheet

## PATE TEF



### 1. Identification

|  |   |
|--|---|
| <b>Product identifier</b>                                      | PATE TEF  |
| <b>Product code</b>  | PATEF250ML12CS ; PATEF1LT6CS  |
| <b>Other means of identification</b>                           | N.Av.   |
| <b>Recommended use of the chemical and restrictions on use</b> | P.T.F.E. Pipe tread sealant paste for low temperature. Not recommended for any other use not detailed on product data sheet or label.   |
| <b>Manufacturer</b>  | AEROCHEM Inc.<br>5977 Trans Canada Highway<br>Pointe-Claire, QC<br>H9R 1C1<br>Canada<br><br>General Information: 1-888-592-5837<br><br><a href="http://www.aerochem.ca">www.aerochem.ca</a><br><a href="mailto:info@aerochem.ca">info@aerochem.ca</a> |
| <b>Emergency phone number</b>                                  | INFOTRAC®: 1-800-535-5053<br>International call collect: 1-352-323-3500<br>24 hours/day, 7 days/week  |

### 2. Hazard identification

|                |   |
|----------------|---|
| <b>Summary</b> | Avoid contact with skin, eyes and clothing. Do not breathe vapours or dusts. Do not ingest. If medical advice is needed, have this SDS or label at hand. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. |
|----------------|---|

#### WHMIS 2015/GHS/OSHA HCS 2012



Serious eye damage/eye irritation (Category 2)

#### WARNING

H319: Causes serious eye irritation

P264: Wash face, hands and any exposed skin thoroughly after handling.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice or attention.

### 3. Composition/information on ingredients

| Common name         | CAS       | Weight % content |
|---------------------|-----------|------------------|
| Calcium carbonate   | 471-34-1  | 10 - 30 %        |
| Limestone           | 1317-65-3 | 10 - 30 %        |
| Magnesium carbonate | 546-93-0  | 10 - 30 %        |

|  |            |             |
|--|------------|-------------|
| Talc   | 14807-96-6 | 7 - 13 %    |
| Wollastonite   | 13983-17-0 | 7 - 13 %    |
| Titanium dioxide   | 13463-67-7 | 0.1 - 1.5 % |
| Zinc Oxide   | 1314-13-2  | 0.1 - 1.5 % |
| Polytetrafluoroethylene  | 9002-84-0  | 0.1 - 1.5 % |
| <b>Note:</b> The manufacturer withholds the actual concentration range of the ingredients as a trade secret. |            |             |

#### 4. First-aid measures

|                               |  |
|-------------------------------|--|
| <b>Inhalation</b>             | Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.   |
| <b>Skin contact</b>           | Flush with water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Avoid touching eyes with contaminated body parts. If a problem develops or persists, seek medical attention.   |
| <b>Eye contact</b>            | IMMEDIATELY flush with plenty of water. Remove contact lenses if easy to do. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.  |
| <b>Ingestion</b>              | DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with plenty of water. Never give anything by mouth if victim is unconscious or convulsing. Seek medical attention or contact a Poison Centre immediately.                                   |
| <b>Other</b>                  | No additional information.   |
| <b>Symptoms</b>               | May cause redness and slight irritation of the skin and to eyes.   |
| <b>Notes to the physician</b> | If gastric lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. |

#### 5. Fire-fighting measures

|   |  |
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| <b>Suitable extinguishing media</b>                 | Dry chemicals, water spray, chemical foam, carbon dioxide (CO <sub>2</sub> ). Do not use a heavy water jet.  |
| <b>Specific hazards arising from the chemical</b>   | Non-flammable. May be combustible at high temperature.   |
| <b>Special protective equipment</b>                 | Firefighters must wear self contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.               |
| <b>Special protective actions for fire-fighters</b> | Use water spray to cool fire-exposed containers. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. |

#### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.   |
| <b>Environmental precautions</b>   | Prevent entry into sewers, closed areas and release to the environment.   |
| <b>Methods and materials for</b>   | Ventilate the area well. Remove sources of ignition. Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal container clearly identified. Finish |

|                             |  |
|-----------------------------|--|
| containment and cleaning up | cleaning the contaminated surface by rinsing with soapy water. |
|-----------------------------|--|

## 7. Handling and storage

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| <b>Precautions for safe handling</b>                                | Use in well ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe vapours or dusts. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. Keep away from heat and open flame. Keep containers tightly closed when not in use. Do not eat, do not drink and do not smoke during use. Wash hands, forearms and face thoroughly after handling this compound and before eating, drinking or using toiletries. Remove contaminated clothing and wash before reuse. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store tightly closed and in properly labelled containers in a cool, dry and well ventilated place. Store away from oxidizing materials and incompatible materials (see section 10). Keep away from direct sunlight and heat. Keep away from food and drink.   |
| <b>Storage temperature</b>  | 15 to 45°C (59 to 113°F)  |

## 8. Exposure controls/personal protection

|  |   |                    |                      |                      |
|--|---|--------------------|----------------------|----------------------|
| <b>Immediately Dangerous to Life or Health</b> | Talc: 1000 mg/m <sup>3</sup> .<br>Titanium dioxide: 5000 mg/m <sup>3</sup> .<br>Zinc Oxide: 500 mg/m <sup>3</sup> .   |                    |                      |                      |
| Limestone                                      | STEL  | Total Dust         | 20 mg/m <sup>3</sup> | BC                   |
|  | TWA (8h)  | Total Dust         | 10 mg/m <sup>3</sup> | ACGIH , BC, ON, RSST |
| Magnesium carbonate                            | TWA (8h)  | Total Dust         | 10 mg/m <sup>3</sup> | ACGIH , BC, ON, RSST |
| Calcium carbonate                              | STEL  | Respirable Dust    | 20 mg/m <sup>3</sup> | BC                   |
|  | TWA (8h)  | Total Dust         | 10 mg/m <sup>3</sup> | ACGIH , RSST         |
| Talc   | TWA (8h)  | Respirable Dust    | 2 mg/m <sup>3</sup>  | ACGIH , BC, ON       |
|  |   | Respirable Dust    | 3 mg/m <sup>3</sup>  | RSST (Pr)            |
| Wollastonite                                   | TWA (8h)  | Respirable Dust    | 3 mg/m <sup>3</sup>  | ACGIH , BC, ON       |
|  |   | Respirable Dust    | 5 mg/m <sup>3</sup>  | RSST                 |
|  |   | Total Dust         | 10 mg/m <sup>3</sup> | ACGIH , BC, ON, RSST |
| Titanium dioxide                               | TWA (8h)  | Total Dust         | 10 mg/m <sup>3</sup> | ACGIH , BC, ON, RSST |
| Zinc Oxide                                     | Ceiling   | Inhalable Fraction | 10 mg/m <sup>3</sup> | ACGIH , BC, ON       |
|  | STEL  | Fume               | 10 mg/m <sup>3</sup> | RSST                 |
|  | TWA (8h)  | Respirable Dust    | 2 mg/m <sup>3</sup>  | ACGIH , BC, ON       |
|  |   | Fume               | 5 mg/m <sup>3</sup>  | RSST                 |
|  |   | Total Dust         | 10 mg/m <sup>3</sup> | RSST                 |
| <b>Appropriate engineering controls</b>        | Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.   |                    |                      |                      |
| <b>Individual protection measures</b>          |   |                    |                      |                      |
| <b>Eye</b>                                     | No measures will be necessary. If there is a risk of contact with eyes, wear chemical splash goggles.   |                    |                      |                      |
| <b>Hands</b>                                   | Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Before using, user should confirm impermeability. Discard gloves with tears, pinholes, or signs of wear.   |                    |                      |                      |
| <b>Skin</b>                                    | Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear work clothing as required by employer code.  |                    |                      |                      |
| <b>Respiratory</b>                             | Respiratory protection is not required for normal use. Where the conditions in the workplace require a respirator, it is necessary to follow a respiratory protection program. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations |                    |                      |                      |

and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA.

**Feet** No personal protection measure required.



Safety glasses Nitrile disposable gloves

## 9. Physical and chemical properties

|   |                                     |  |                          |
|---|-------------------------------------|--|--------------------------|
| <b>Physical state</b>   | Solid (Paste)                       | <b>Flammability</b>                          | Non-flammable            |
| <b>Colour</b>   | Blue                                | <b>Flammability limits</b>                   | N/Av.                    |
| <b>Odour</b>  | Mild petroleum odor                 | <b>Flash point</b>                           | 177 °C (350.6 °F)        |
| <b>Odour threshold</b>  | N/Av.                               | <b>Auto-ignition temperature</b>             | N/Av.                    |
| <b>pH</b>   | N/Av.                               | <b>Sensibility to electrostatic charges</b>  | N/Av.                    |
| <b>Melting point</b>  | N/Av.                               | <b>Sensibility to sparks and/or friction</b> | No                       |
| <b>Freezing point</b>   | N/Av.                               | <b>Vapour density</b>                        | >1 (Air = 1)             |
| <b>Boiling point</b>  | N/Av.                               | <b>Relative density</b>                      | 1.6 kg/L (Water = 1)     |
| <b>Solubility</b>   | Slightly soluble in water.          | <b>Partition coefficient n-octanol/water</b> | N/Av.                    |
| <b>Evaporation rate</b>   | < Butyl Acetate                     | <b>Decomposition temperature</b>             | N/Av.                    |
| <b>Vapour pressure</b>  | <0.133kPa (1 mm Hg) @ 20 °C (68 °F) | <b>Viscosity</b>                             | 140 cSt @ 40 °C (104 °F) |
| <b>Percent Volatile</b>   | N/Av.                               | <b>Molecular mass</b>                        | N/Av.                    |
| N/Av.: Not Available    N/Av.: Not Applicable    Und.: Undetermined    N/E: Not Established |                                     |  |                          |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>   | No information available for this product.   |
| <b>Chemical stability</b>   | Stable under recommended storage conditions.   |
| <b>Possibility of hazardous reactions (including polymerizations)</b> | A dangerous reaction will not occur.   |
| <b>Conditions to avoid</b>  | Avoid contact with incompatible materials.   |
| <b>Incompatible materials</b>   | Strong oxidizing agents (e.g. chlorine, fluorine, nitric acid, perchloric acid, peroxides, nitrates, chlorates, chromates, permanganates and perchlorates), strong acids (e.g. hydrochloric acid, sulfuric acid, phosphoric acid). |
| <b>Hazardous decomposition products</b>                               | Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |




## 11. Toxicological information

|   |   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|---|---|--------------------|--|---------------------|--|-------------------|---|------------------|---|--|--|--------------------------------|---|------------------------|--|---------------------|---|------------------------------|--|---|----------------------------|---|----------------------------|-------------|-----|------|--|--|-------------|-----|------|------|-----------|-------------|-----|------|--|------|-------------|--------|------|--------------|-----------|-------------|-----|------|--|------|-------------|--------|------|------------------|-----------|--------------|-----|------|--|------------|---------------|-----|------|--|------|--------------|--------|------|------------|-----------|------------|-------|------|--|------------|-------------|-------|------|--|------|-------------|--------|------|-------------------------|-----------|-------------|-----|------|
| <b>Numerical measures of toxicity</b>                     | <table border="0"> <tr> <td>Calcium carbonate</td> <td>Ingestion</td> <td>6450 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td></td> <td>Inhalation</td> <td>&gt;3 mg/l/4h</td> <td>Rat</td> <td>LC50</td> </tr> <tr> <td></td> <td>Skin</td> <td>&gt;2000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td>Limestone</td> <td>Ingestion</td> <td>6450 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td>Magnesium carbonate</td> <td>Ingestion</td> <td>&gt;2000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td></td> <td></td> <td>&gt;2000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td>Talc</td> <td>Ingestion</td> <td>&gt;5000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td></td> <td>Skin</td> <td>&gt;2000 mg/kg</td> <td>Rabbit</td> <td>LD50</td> </tr> <tr> <td>Wollastonite</td> <td>Ingestion</td> <td>&gt;2000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td></td> <td>Skin</td> <td>&gt;5000 mg/kg</td> <td>Rabbit</td> <td>LD50</td> </tr> <tr> <td>Titanium dioxide</td> <td>Ingestion</td> <td>&gt;10000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> <tr> <td></td> <td>Inhalation</td> <td>&gt;6.82 mg/l/4h</td> <td>Rat</td> <td>LC50</td> </tr> <tr> <td></td> <td>Skin</td> <td>&gt;10000 mg/kg</td> <td>Rabbit</td> <td>LD50</td> </tr> <tr> <td>Zinc Oxide</td> <td>Ingestion</td> <td>7950 mg/kg</td> <td>Mouse</td> <td>LD50</td> </tr> <tr> <td></td> <td>Inhalation</td> <td>2.5 mg/l/4h</td> <td>Mouse</td> <td>LC50</td> </tr> <tr> <td></td> <td>Skin</td> <td>&gt;2000 mg/kg</td> <td>Rabbit</td> <td>LD50</td> </tr> <tr> <td>Polytetrafluoroethylene</td> <td>Ingestion</td> <td>&gt;5000 mg/kg</td> <td>Rat</td> <td>LD50</td> </tr> </table>   | Calcium carbonate  | Ingestion  | 6450 mg/kg          | Rat  | LD50              |   | Inhalation       | >3 mg/l/4h  | Rat                                      | LC50   |                                | Skin  | >2000 mg/kg            | Rat  | LD50                | Limestone   | Ingestion                    | 6450 mg/kg   | Rat   | LD50                       | Magnesium carbonate                                       | Ingestion                  | >2000 mg/kg | Rat | LD50 |  |  | >2000 mg/kg | Rat | LD50 | Talc | Ingestion | >5000 mg/kg | Rat | LD50 |  | Skin | >2000 mg/kg | Rabbit | LD50 | Wollastonite | Ingestion | >2000 mg/kg | Rat | LD50 |  | Skin | >5000 mg/kg | Rabbit | LD50 | Titanium dioxide | Ingestion | >10000 mg/kg | Rat | LD50 |  | Inhalation | >6.82 mg/l/4h | Rat | LC50 |  | Skin | >10000 mg/kg | Rabbit | LD50 | Zinc Oxide | Ingestion | 7950 mg/kg | Mouse | LD50 |  | Inhalation | 2.5 mg/l/4h | Mouse | LC50 |  | Skin | >2000 mg/kg | Rabbit | LD50 | Polytetrafluoroethylene | Ingestion | >5000 mg/kg | Rat | LD50 |
| Calcium carbonate   | Ingestion   | 6450 mg/kg         | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Inhalation  | >3 mg/l/4h         | Rat  | LC50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Skin  | >2000 mg/kg        | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Limestone   | Ingestion   | 6450 mg/kg         | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Magnesium carbonate                                       | Ingestion   | >2000 mg/kg        | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   |   | >2000 mg/kg        | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Talc  | Ingestion   | >5000 mg/kg        | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Skin  | >2000 mg/kg        | Rabbit   | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Wollastonite  | Ingestion   | >2000 mg/kg        | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Skin  | >5000 mg/kg        | Rabbit   | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Titanium dioxide  | Ingestion   | >10000 mg/kg       | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Inhalation  | >6.82 mg/l/4h      | Rat  | LC50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Skin  | >10000 mg/kg       | Rabbit   | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Zinc Oxide  | Ingestion   | 7950 mg/kg         | Mouse  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Inhalation  | 2.5 mg/l/4h        | Mouse  | LC50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
|   | Skin  | >2000 mg/kg        | Rabbit   | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| Polytetrafluoroethylene                                   | Ingestion   | >5000 mg/kg        | Rat  | LD50                |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Likely routes of exposure</b>                          | Skin, eyes, inhalation, ingestion.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Delayed, immediate and chronic effects</b>             | <table border="0"> <tr> <td><b>Eye contact</b></td> <td>May cause itching, redness and irritation of the eyes.</td> </tr> <tr> <td><b>Skin contact</b></td> <td>May cause redness and slight irritation of the skin.</td> </tr> <tr> <td><b>Inhalation</b></td> <td>Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. Inhalation of vapors formed at high temperatures can cause respiratory tract irritation.</td> </tr> <tr> <td><b>Ingestion</b></td> <td>Ingestion may cause gastrointestinal irritation and diarrhea.</td> </tr> <tr> <td><b>Respiratory or skin sensitization</b></td> <td>Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.</td> </tr> <tr> <td><b>IARC/NTP Classification</b></td> <td> <b>Common name IARC NTP</b><br/>                     Titanium dioxide 2B -<br/>                     IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.<br/>                     NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.                 </td> </tr> <tr> <td><b>Carcinogenicity</b></td> <td>Titanium dioxide in dust form can cause cancer (through inhalation) based on animal data. Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint and caulk.</td> </tr> <tr> <td><b>Mutagenicity</b></td> <td>Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.</td> </tr> <tr> <td><b>Reproductive toxicity</b></td> <td>Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.</td> </tr> <tr> <td><b>Specific target organ toxicity - single exposure</b></td> <td>No target organ is listed.</td> </tr> <tr> <td><b>Specific target organ toxicity - repeated exposure</b></td> <td>No target organ is listed.</td> </tr> </table> | <b>Eye contact</b> | May cause itching, redness and irritation of the eyes. | <b>Skin contact</b> | May cause redness and slight irritation of the skin. | <b>Inhalation</b> | Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. Inhalation of vapors formed at high temperatures can cause respiratory tract irritation. | <b>Ingestion</b> | Ingestion may cause gastrointestinal irritation and diarrhea. | <b>Respiratory or skin sensitization</b> | Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers. | <b>IARC/NTP Classification</b> | <b>Common name IARC NTP</b><br>Titanium dioxide 2B -<br>IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.<br>NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens. | <b>Carcinogenicity</b> | Titanium dioxide in dust form can cause cancer (through inhalation) based on animal data. Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint and caulk. | <b>Mutagenicity</b> | Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects. | <b>Reproductive toxicity</b> | Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects. | <b>Specific target organ toxicity - single exposure</b> | No target organ is listed. | <b>Specific target organ toxicity - repeated exposure</b> | No target organ is listed. |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Eye contact</b>  | May cause itching, redness and irritation of the eyes.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Skin contact</b>                                       | May cause redness and slight irritation of the skin.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Inhalation</b>   | Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. Inhalation of vapors formed at high temperatures can cause respiratory tract irritation.   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Ingestion</b>  | Ingestion may cause gastrointestinal irritation and diarrhea.   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Respiratory or skin sensitization</b>                  | Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>IARC/NTP Classification</b>                            | <b>Common name IARC NTP</b><br>Titanium dioxide 2B -<br>IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.<br>NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Carcinogenicity</b>                                    | Titanium dioxide in dust form can cause cancer (through inhalation) based on animal data. Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint and caulk.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Mutagenicity</b>                                       | Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Reproductive toxicity</b>                              | Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Specific target organ toxicity - single exposure</b>   | No target organ is listed.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Specific target organ toxicity - repeated exposure</b> | No target organ is listed.  |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Interactive effects</b>                                | No information available.   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |
| <b>Other information</b>                                  | The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimates (ATE) by inhalation of the mixture were calculated to be greater than 20 mg/L/4h for vapours and to be greater than 5 mg/L/4h for the dusts and mists. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.   |                    |  |                     |  |                   |   |                  |   |  |  |                                |   |                        |  |                     |   |                              |  |   |                            |   |                            |             |     |      |  |  |             |     |      |      |           |             |     |      |  |      |             |        |      |              |           |             |     |      |  |      |             |        |      |                  |           |              |     |      |  |            |               |     |      |  |      |              |        |      |            |           |            |       |      |  |            |             |       |      |  |      |             |        |      |                         |           |             |     |      |

## 12. Ecological information

|                                  |  |
|----------------------------------|--|
| <b>Ecological toxicity</b>       | Fish - Pimephales promelas - Fresh water LC50 >500 mg/L; 96 h (CAS no 13463-67-7)<br>Aquatic Invertebrates - Daphnia pulex EC50 >100 mg/L; 48 h (CAS no 13463-67-7)<br>Aquatic Invertebrate - Daphnia magna (Water flea) EC50 >1000 mg/L; 48 h (CAS no 13463-67-7) |
| <b>Persistence</b>               | Contains an or many ingredients that may be persistent in aquatic environment.   |
| <b>Degradability</b>             | The term biodegradability, as such, is not applicable to inorganic compounds. The product is a mixture whose ingredients are not readily biodegradable (<60% in 28 days).  |
| <b>Bioaccumulative potential</b> | Inorganic compounds persist in the environment indefinitely or incorporate into biological systems.  |
| <b>Mobility in soil</b>          | The product is a mixture of which some ingredients have a high mobility in the soil, while other ingredients have a moderate to low mobility in the soil.  |
| <b>Other adverse effects</b>     | This chemical does not deplete the ozone layer.  |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Container</b><br> | Important! Prevent waste generation. Use in full. DO NOT dispose residue in sewers, streams or drinking water supply. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities. |
|--|--|

## 14. Transport information

|   |   |
|---|---|
| <b>UN Number</b>  | UN N/A  |
| <b>UN Proper Shipping Name</b>                          | Not regulated by TDG (Canada) and 49 CFR DOT (USA). |
| <b>Environmental hazards</b>                            | This material does not contain marine pollutant.    |
| <b>Special precautions for user</b>                     | No additional information.                          |
| <b>TDG - Transportation of Dangerous Goods (Canada)</b> |   |
| <b>Transport hazard class(es)</b>                       | Not regulated                                       |
| <b>Packing group</b>                                    | Not regulated                                       |
| <b>Emergency response guidebook 2016</b>                |   |
| <b>IMO/IMDG - International Maritime Transport</b>      |   |
| <b>Classification</b>                                   | Not regulated                                       |
| <b>IATA - International Air Transport Association</b>   |   |
| <b>Classification</b>                                   | Not regulated                                       |

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

## 15. Regulatory information

### CANADA

| Common name             | CAS        | CEPA | DSL | NDSL | NPRI |
|-------------------------|------------|------|-----|------|------|
| Calcium carbonate       | 471-34-1   |      | X   |      |      |
| Limestone               | 1317-65-3  |      |     | X    |      |
| Magnesium carbonate     | 546-93-0   |      | X   |      |      |
| Talc                    | 14807-96-6 |      | X   |      |      |
| Wollastonite            | 13983-17-0 |      |     |      |      |
| Titanium dioxide        | 13463-67-7 |      | X   |      |      |
| Zinc Oxide              | 1314-13-2  |      | X   |      | X    |
| Polytetrafluoroethylene | 9002-84-0  |      | X   |      |      |

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

### UNITED STATE OF AMERICA

| Common name             | CAS        | TSCA | CER<br>CLA | EPCRA<br>313 | EPCRA<br>302/304 | CAA<br>112(b)<br>HON | CAA<br>112(b)<br>HAP | CAA<br>112(r) | CWA<br>311 | CWA<br>Prio. |
|-------------------------|------------|------|------------|--------------|------------------|----------------------|----------------------|---------------|------------|--------------|
| Calcium carbonate       | 471-34-1   | X    |            |              |                  |                      |                      |               |            |              |
| Limestone               | 1317-65-3  | X    |            |              |                  |                      |                      |               |            |              |
| Magnesium carbonate     | 546-93-0   | X    |            |              |                  |                      |                      |               |            |              |
| Talc                    | 14807-96-6 | X    |            |              |                  |                      |                      |               |            |              |
| Wollastonite            | 13983-17-0 | X    |            |              |                  |                      |                      |               |            |              |
| Titanium dioxide        | 13463-67-7 | X    |            |              |                  |                      |                      |               |            |              |
| Zinc Oxide              | 1314-13-2  | X    |            |              |                  |                      |                      |               |            |              |
| Polytetrafluoroethylene | 9002-84-0  | X    |            |              |                  |                      |                      |               |            |              |

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

### California Proposition 65

| Common name      | CAS        | Cancer | Reproductive and Developmental Toxicity |
|------------------|------------|--------|---|
| Titanium dioxide | 13463-67-7 | X      |   |

### Other regulations

All ingredients are listed in the inventory of the Domestic Substances List (DSL) except those listed below which are listed in the Non-Domestic Substances List (NDSL):

| HMIS |                      |
|------|----------------------|
| 1    | Health               |
| 0    | Flamability          |
| 0    | Reactivity           |
| B    | Protective Equipment |



## 16. Other information

|  |   |
|--|---|
| <b>Date<br/>(YYYY-MM-DD)</b>   | AEROCHEM Inc. 2020-03-03  |
| <b>Version</b>   | 04  |
| <b>Other<br/>information</b>   | <p>REFERENCES:<br/>- Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, <a href="https://haz-map.com/">https://haz-map.com/</a><br/>- Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), <a href="http://www.reptox.csst.qc.ca">http://www.reptox.csst.qc.ca</a></p> <p>DATE OF FIRST VERSION OF SDS:<br/>2017-09-20.</p> <p>CHANGES MADE IN THE VERSION 02:<br/>section 3.</p> <p>DATE OF SECOND VERSION OF SDS:<br/>2018-07-18.</p> <p>CHANGES MADE IN THE VERSION 03:<br/>sections 2 and 3.</p> <p>DATE OF THIRD VERSION OF SDS:<br/>2019-07-31.</p> <p>CHANGES MADE IN THE VERSION 04:<br/>section 1.</p> <p>ACGIH: American Conference of Governmental Industrial Hygienists<br/>AIHA: American Industrial Hygiene Association<br/>HMIS: Hazardous Materials Identification System<br/>NFPA: National Fire Protection Association<br/>OSHA: Occupational Safety and Health Administration (USA)<br/>NIOSH: National Institute for Occupational Safety and Health<br/>NTP: National Toxicology Program<br/>RSST: Règlement sur la santé et la sécurité du travail (Québec)<br/>GHS: Globally Harmonized System<br/>IARC: International Agency for Research on Cancer<br/>IDLH: Immediately Dangerous to Life or Health<br/>STEL: Short Term Exposure Limit (15 min)<br/>TWA: Time Weighted Averages<br/>WHMIS: Workplace Hazardous Materials Information System</p> |
| <b>Powered by</b><br><br>A global vision of<br>prevention | <p>To the best of our knowledge, the information contained herein is accurate. However, neither Préventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p>  |