

# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

SM7120 PU GRAY  
Revision Number 1.01

Revision date 12-Apr-2021  
Supersedes Date: 24-Nov-2020

## PERMATHANE SM7120 PU Polyurethane Sealant

### 1. Identification

#### 1.1. Product Identifier

Product Name SM7120 PU GRAY

#### Other means of identification

Other information Not applicable

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Adhesives and/or sealants  
Restrictions on use No information available

#### 1.3. Details of the supplier of the safety data sheet

##### Responsible Party

Holcim Solutions and Products US, LLC  
26 Century Boulevard, Suite 205  
Nashville, Tennessee 37214  
1-800-878-7876

#### 1.4. Emergency telephone number

Emergency Telephone CHEMTREC (US Transportation): (800) 424-9300

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

|  |            |
|--|------------|
| Respiratory sensitization                          | Category 1 |
| Skin sensitization                                 | Category 1 |
| Carcinogenicity                                    | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable Liquids                                  | Category 4 |

#### Hazards not otherwise classified (HNOC)

Not applicable

#### 2.2. Label Elements

#### EMERGENCY OVERVIEW

##### Danger

##### Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
Suspected of causing cancer  
May cause damage to organs through prolonged or repeated exposure  
Combustible liquid

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**Appearance** Paste

**Physical state** Liquid

**Odor** Solvent

## Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing must not be allowed out of the workplace  
Do not breathe dust/fume/gas/mist/vapors/spray  
Keep away from flames and hot surfaces. - No smoking

## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

## Precautionary Statements - Storage

Store locked up  
Store in a well-ventilated place. Keep cool

## Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

19 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

No information available.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

| Chemical name                         | CAS No     | Weight-% |
|---------------------------------------|------------|----------|
| Limestone                             | 1317-65-3  | 10 - 30  |
| Polyvinyl chloride                    | 9002-86-2  | 10 - 30  |
| Titanium dioxide                      | 13463-67-7 | 1 - <5   |
| Xylenes (o-, m-, p- isomers)          | 1330-20-7  | 1 - <5   |
| Propylene carbonate                   | 108-32-7   | 1 - <5   |
| Benzenesulfonyl isocyanate, 4-methyl- | 4083-64-1  | 0.1 - <1 |

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|                                     |            |          |
|-------------------------------------|------------|----------|
| Ethylbenzene                        | 100-41-4   | 0.1 - <1 |
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8   | 0.1 - <1 |
| Quartz                              | 14808-60-7 | 0.1 - <1 |

*\*The exact percentage (concentration) of composition has been withheld as a trade secret*

## 4. First-aid measures

### 4.1. Description of first aid measures

- General advice** IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
- Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. May cause allergic respiratory reaction. (Call a physician if symptoms occur). If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
- Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
- Ingestion** Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. May produce an allergic reaction. Get immediate medical advice/attention.
- Self-protection of the first aider** Remove all sources of ignition. Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

- Note to physicians** May cause sensitization in susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

- Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without risk.
- Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

- Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

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**Specific hazards arising from the chemical** Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride. Sulfur oxides.

## Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes. May be ignited by friction, heat, sparks or flames.

## 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. See section 8 for more information. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Wash thoroughly after handling.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

**Methods for cleaning up** Use personal protective equipment as required. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Do not breathe vapor or mist. Use with local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take

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off contaminated clothing and wash before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

### Storage Conditions

Keep in properly labeled containers. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a dry, cool and well-ventilated place. Water reactive. Protect from moisture.

## 7.3 References to other sections

### Reference to other sections

Section 10: STABILITY AND REACTIVITY  
Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.

| Chemical name                             | ACGIH TLV  | OSHA PEL   | NIOSH   |
|---|--|--|---|
| Limestone<br>1317-65-3                    | -  | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction<br><br>(vacated) TWA: 15 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust  |
| Polyvinyl chloride<br>9002-86-2           | TWA: 1 mg/m <sup>3</sup> respirable particulate matter | -  | -   |
| Titanium dioxide<br>13463-67-7            | TWA: 10 mg/m <sup>3</sup>                              | TWA: 15 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 10 mg/m <sup>3</sup> total dust   | IDLH: 5000 mg/m <sup>3</sup><br>TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine<br>TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale |
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | STEL: 150 ppm<br>TWA: 100 ppm                          | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m <sup>3</sup><br><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 655 mg/m <sup>3</sup>             | -   |
| Ethylbenzene<br>100-41-4                  | TWA: 20 ppm  | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup>   | IDLH: 800 ppm<br>TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup>   |

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|   |  |   |   |
|---|--|---|---|
|   |  | (vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m <sup>3</sup>  | STEL: 125 ppm<br>STEL: 545 mg/m <sup>3</sup>  |
|   |  | (vacated) STEL: 125 ppm<br>(vacated) STEL: 545 mg/m <sup>3</sup>  |   |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | TWA: 0.005 ppm   | (vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate<br>(vacated) Ceiling: 0.2 mg/m <sup>3</sup> regulated under Methylene bisphenyl isocyanate<br><br>Ceiling: 0.02 ppm<br>Ceiling: 0.2 mg/m <sup>3</sup>  | IDLH: 75 mg/m <sup>3</sup><br>Ceiling: 0.020 ppm 10 min<br>Ceiling: 0.2 mg/m <sup>3</sup> 10 min<br><br>TWA: 0.005 ppm<br>TWA: 0.05 mg/m <sup>3</sup> |
| Quartz<br>14808-60-7                            | TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter | TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays<br>(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust<br>: (250)/(%SiO <sub>2</sub> + 5) mppcf<br>TWA respirable fraction<br>: (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup><br>TWA respirable fraction | IDLH: 50 mg/m <sup>3</sup> respirable dust<br>TWA: 0.05 mg/m <sup>3</sup> respirable dust   |

| Chemical name                                   | Argentina                     | Brazil                                    | Chile   | Colombia                    |
|---|-------------------------------|---|---|-----------------------------|
| Limestone<br>1317-65-3                          | TWA: 10 mg/m <sup>3</sup>     | -   | TWA: 7 mg/m <sup>3</sup>                      | -                           |
| Polyvinyl chloride<br>9002-86-2                 | -                             | TWA: 1 mg/m <sup>3</sup>                  | -   | TWA: 1mg/m <sup>3</sup>     |
| Titanium dioxide<br>13463-67-7                  | TWA: 10 mg/m <sup>3</sup>     | TWA: 10 mg/m <sup>3</sup>                 | -   | TWA: 10mg/m <sup>3</sup>    |
| Xylenes (o-, m-, p- isomers)<br>1330-20-7       | TWA: 100 ppm<br>STEL: 150 ppm | TWA: 78 ppm<br>TWA: 340 mg/m <sup>3</sup> | TWA: 87 ppm<br>TWA: 380 mg/m <sup>3</sup>     | STEL: 150ppm<br>TWA: 100ppm |
| Ethylbenzene<br>100-41-4                        | TWA: 100 ppm<br>STEL: 125 ppm | TWA: 78 ppm<br>TWA: 340 mg/m <sup>3</sup> | TWA: 87 ppm<br>TWA: 380 mg/m <sup>3</sup>     | TWA: 20ppm                  |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | TWA: 0.005 ppm                | TWA: 0.005 ppm                            | TWA: 0.004 ppm<br>TWA: 0.05 mg/m <sup>3</sup> | TWA: 0.005ppm               |
| Quartz<br>14808-60-7                            | TWA: 0.05 mg/m <sup>3</sup>   | TWA: 0.025 mg/m <sup>3</sup>              | TWA: 0.08 mg/m <sup>3</sup>                   | TWA: 0.025mg/m <sup>3</sup> |

| Chemical name                   | Costa Rica              | Peru | Uruguay  | Venezuela |
|---------------------------------|-------------------------|------|--|-----------|
| Polyvinyl chloride<br>9002-86-2 | TWA: 1mg/m <sup>3</sup> | -    | 1 mg/m <sup>3</sup> TWA<br>(respirable particulate matter) | -         |

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| Chemical name                                   | Costa Rica                  | Peru   | Uruguay   | Venezuela                             |
|---|-----------------------------|--|---|---------------------------------------|
| Titanium dioxide<br>13463-67-7                  | TWA: 10mg/m <sup>3</sup>    | TWA: 10mg/m <sup>3</sup>   | 10 mg/m <sup>3</sup> TWA  | TWA: 10 mg/m <sup>3</sup>             |
| Xylenes (o-, m-, p- isomers)<br>1330-20-7       | TWA: 100ppm<br>STEL: 150ppm | STEL: 150ppm<br>STEL: 651mg/m <sup>3</sup><br><br>TWA: 100ppm<br>TWA: 434mg/m <sup>3</sup> | 150 ppm STEL<br>100 ppm TWA                                       | Skin<br>STEL: 150 ppm<br>TWA: 100 ppm |
| Ethylbenzene<br>100-41-4                        | TWA: 20ppm                  | STEL: 125ppm<br>STEL: 543mg/m <sup>3</sup><br><br>TWA: 100ppm<br>TWA: 434mg/m <sup>3</sup> | 20 ppm TWA  | Skin<br>STEL: 125 ppm<br>TWA: 100 ppm |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | TWA: 0.005ppm               | TWA: 0.005ppm<br>TWA: 0.051mg/m <sup>3</sup>   | 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI)) | TWA: 0.005 ppm                        |
| Quartz<br>14808-60-7                            | TWA: 0.025mg/m <sup>3</sup> | TWA: 0.05mg/m <sup>3</sup>   | 0.025 mg/m <sup>3</sup> TWA (respirable particulate matter)       | TWA: 0.025 mg/m <sup>3</sup>          |

## 8.2. Exposure controls

### OTHER INFORMATION

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

| Chemical name             | ACGIH TLV                           | OSHA PEL   | NIOSH  |
|---------------------------|-------------------------------------|--|--|
| Methyl alcohol<br>67-56-1 | STEL: 250 ppm<br>TWA: 200 ppm<br>S* | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br><br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m <sup>3</sup><br><br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m <sup>3</sup><br><br>(vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br><br>STEL: 250 ppm<br>STEL: 325 mg/m <sup>3</sup> |

| Chemical name             | Argentina                             | Brazil   | Chile  | Colombia                    |
|---------------------------|---------------------------------------|--|--|-----------------------------|
| Methyl alcohol<br>67-56-1 | TWA: 200 ppm<br>Skin<br>STEL: 250 ppm | TWA: 156 ppm<br>TWA: 200 mg/m <sup>3</sup><br>Skin | TWA: 175 ppm<br>TWA: 229 mg/m <sup>3</sup><br>Skin | STEL: 250ppm<br>TWA: 200ppm |

| Chemical name  | Costa Rica  | Peru         | Uruguay      | Venezuela |
|----------------|-------------|--------------|--------------|-----------|
| Methyl alcohol | TWA: 200ppm | STEL: 250ppm | 250 ppm STEL | Skin      |

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| Chemical name | Costa Rica   | Peru   | Uruguay     | Venezuela                     |
|---------------|--------------|--|-------------|-------------------------------|
| 67-56-1       | STEL: 250ppm | STEL: 328mg/m <sup>3</sup><br><br>TWA: 200ppm<br>TWA: 262mg/m <sup>3</sup> | 200 ppm TWA | STEL: 250 ppm<br>TWA: 200 ppm |

## Appropriate engineering controls

**Engineering controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

## Individual protection measures, such as personal protective equipment

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

**Hand protection**                              Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

**Skin and body protection**                      Wear suitable protective clothing.

**Respiratory protection**                      If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations**                      Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended.

## **9. Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Physical state**                                      Liquid  
**Appearance**                                      Paste  
**Color**    Gray  
**Odor**    Solvent  
**Odor threshold**                                      No information available

| <u>Property</u>                | <u>Values</u>                | <u>Remarks • Method</u> |
|--------------------------------|------------------------------|-------------------------|
| pH                             | No data available            | None known              |
| Melting point / freezing point | No data available            | None known              |
| Boiling point / boiling range  | No data available            | None known              |
| Flash point                    | 74.4 °C / 165.9 °F           |                         |
| Evaporation rate               | No data available            | None known              |
| Flammability (solid, gas)      | Not applicable for liquids . |                         |
| Flammability Limit in Air      |                              | None known              |



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|  |                   |            |
|--|-------------------|------------|
| Upper flammability or explosive limits | No data available |            |
| Lower flammability or explosive limits | No data available |            |
| Vapor pressure                         | No data available | None known |
| Relative vapor density                 | No data available | None known |
| Relative density                       | No data available | None known |
| Water solubility                       | No data available | None known |
| Solubility(ies)                        | No data available | None known |
| Partition coefficient                  | No data available | None known |
| Autoignition temperature               | No data available | None known |
| Decomposition temperature              | No data available | None known |
| Kinematic viscosity                    | No data available | None known |
| Dynamic viscosity                      | No data available | None known |

## 9.2. Other information

|                      |                          |               |
|----------------------|--------------------------|---------------|
| Explosive properties | No information available |               |
| Oxidizing properties | No information available |               |
| Solvent content (%)  | No information available |               |
| Solid content (%)    | No information available |               |
| Softening Point      | No information available |               |
| Molecular weight     | No information available |               |
| VOC Content (%)      | 17.4 g/L / 1.31 %        | EPA Method 24 |
| Density              | 1.42 g/cm <sup>3</sup>   |               |
| Bulk density         | No information available |               |

## **10. Stability and reactivity**

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Chemical stability Stable under normal conditions. Reacts with water.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization may occur.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight. Storage near to reactive materials. Keep from any possible contact with water.

### 10.5. Incompatible materials

Incompatible materials Water. Alcohols. Strong oxidizing agents. Strong acids. Finely powdered metals. Chlorinated compounds.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>) Hydrogen cyanide

## **11. Toxicological information**

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## 11.1. Information on toxicological effects

### Product Information

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause sensitization in susceptible persons. May cause allergy or asthma symptoms or breathing difficulties if inhaled.         |
| <b>Eye contact</b>  | Based on available data, the classification criteria are not met.  |
| <b>Skin contact</b> | Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact. |
| <b>Ingestion</b>    | May cause additional affects as listed under "Inhalation".   |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. |
|-----------------|--|

### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (dermal)               | 24,426.90 mg/kg |
| ATEmix (inhalation-dust/mist) | 174.20 mg/l     |

### Component Information

| Chemical name                                      | Oral LD50                                      | Dermal LD50   | Inhalation LC50                                    |
|--|--|---|--|
| Limestone<br>1317-65-3                             | >5000 mg/kg (Rattus)                           | -   | -  |
| Titanium dioxide<br>13463-67-7                     | >10000 mg/kg (Rattus)                          | LD50 > 10000 mg/Kg  | >5 mg/l  |
| Xylenes (o-, m-, p- isomers)<br>1330-20-7          | =3500 mg/kg (Rattus)                           | > 1700 mg/kg (Oryctolagus cuniculus) > 4350 mg/kg (Oryctolagus cuniculus) | =>47635 mg/L (Rattus) 4 h = >5000 ppm (Rattus) 4 h |
| Propylene carbonate<br>108-32-7                    | LD50 > 5000 mg/kg (Rattus) OECD 401            | > 3000 mg/kg (Oryctolagus cuniculus)                                      | -  |
| Benzenesulfonyl isocyanate, 4-methyl-<br>4083-64-1 | =2234 mg/kg (Rattus)                           | LD 50 (Rattus) > 2000 mg/kg OECD 402                                      | >640 ppm (Rattus) 1 h                              |
| Ethylbenzene<br>100-41-4                           | =3500 mg/kg (Rattus)                           | = 15400 mg/kg (Oryctolagus cuniculus)                                     | =17.4 mg/L (Rattus) 4 h                            |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8    | =31600 mg/kg (Rattus)<br>= 9200 mg/kg (Rattus) | LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402                       | =1.5 mg/L (Rattus) 4 h                             |
| Quartz<br>14808-60-7                               | >2000 mg/kg (Rattus)                           | -   | -  |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--------|---------|----------------|----------------|---------------|---------|
|--------|---------|----------------|----------------|---------------|---------|

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|  |  |  |  |  |              |
|--|--|--|--|--|--------------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion |  |  |  |  | Non-irritant |
|--|--|--|--|--|--------------|

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method  | Species | Exposure route | Effective dose | Exposure time | Results      |
|---|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | Eye            | 0.1 mL         | 24 hours      | Non-irritant |

**Respiratory or skin sensitization** May cause sensitization by inhalation. May cause sensitization by skin contact.

Titanium dioxide (13463-67-7)

4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method     | Species | Exposure route | Results     |
|------------|---------|----------------|-------------|
| OECD GD 39 | Rat     | Inhalation     | Sensitizing |

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity**

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. As Titanium dioxide (13463-67-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                                      | ACGIH | IARC     | NTP   | OSHA |
|--|-------|----------|-------|------|
| Polyvinyl chloride<br>9002-86-2                    | -     | Group 3  | -     | -    |
| Titanium dioxide<br>13463-67-7                     | -     | Group 2B | -     | X    |
| Xylenes (o-, m-, p-<br>isomers)<br>1330-20-7       | -     | Group 3  | -     | -    |
| Ethylbenzene<br>100-41-4                           | A3    | Group 2B | -     | X    |
| 4,4'-Methylenediphenyl<br>diisocyanate<br>101-68-8 | -     | Group 3  | -     | -    |
| Quartz<br>14808-60-7                               | A2    | Group 1  | Known | X    |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

A2 - Suspected Human Carcinogen

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

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

Titanium dioxide (13463-67-7)

| Method   | Species | Results          |
|--|---------|------------------|
| Oral   | Rat     | Not Carcinogenic |
| Inhalation Xu et al (2010), carcinogenic activity of | Rat     | Carcinogenic     |

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|   |  |  |
|---|--|--|
| nanoscale TiO <sub>2</sub> administered by an intrapulmonary spraying (IPS) - initiation-promotion protocol in rat lung |  |  |
|---|--|--|

## 4,4'-Methylenediphenyl diisocyanate (101-68-8)

| Method   | Species | Results                                   |
|--|---------|---|
| OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies | Rat     | Limited evidence of a carcinogenic effect |

|                                 |  |
|---------------------------------|--|
| <b>Reproductive toxicity</b>    | Based on available data, the classification criteria are not met.  |
| <b>STOT - single exposure</b>   | Based on available data, the classification criteria are not met.  |
| <b>STOT - repeated exposure</b> | May cause damage to organs through prolonged or repeated exposure. |
| <b>Target organ effects</b>     | Eyes, Lungs, Respiratory system, Skin.                             |
| <b>Aspiration hazard</b>        | Based on available data, the classification criteria are not met.  |
| <b>Other adverse effects</b>    | No information available.  |
| <b>Interactive effects</b>      | No information available.  |

## 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity

| Chemical name                                   | Algae/aquatic plants  | Fish   | Toxicity to microorganisms                     | Crustacea   |
|---|---|--|--|---|
| Limestone<br>1317-65-3                          | CE50 (72h) >200mg/L<br>Algae ( <i>Desmodesmus subspicatus</i> )               | CL50 (96h) >10000mg/L<br>( <i>Oncorhynchus mykiss</i> )              | -  | CE50 (48h) >1000 mg/L<br>Daphnia Magna              |
| Titanium dioxide<br>13463-67-7                  | LC50 (96h) >10000 mg/l<br>( <i>Cyprinodon variegatus</i> )<br>OECD 203        | -  | -  | -   |
| Xylenes (o-, m-, p-isomers)<br>1330-20-7        | -   | LC50 96 h 2.6 mg/L<br>( <i>Oncorhynchus mykiss</i> )<br>(OECD 203)   | EC50 = 0.0084 mg/L 24 h                        | EC50 48 h = 3.4 mg/L<br>( <i>Daphnia magna</i> )    |
| Propylene carbonate<br>108-32-7                 | EC50: >500mg/L (72h,<br><i>Desmodesmus subspicatus</i> )                      | LC50 96 h > 1000 mg/L<br>( <i>Cyprinus carpio</i><br>semi-static)    | EC50 > 10000 mg/L 17 h                         | EC50: >500mg/L (48h,<br><i>Daphnia magna</i> )      |
| Ethylbenzene<br>100-41-4                        | EC50 72 h 2.6 - 11.3<br>mg/L<br>( <i>Pseudokirchneriella subcapitata</i> )    | LC50 96 h = 4.2 mg/L<br>( <i>Oncorhynchus mykiss</i><br>semi-static) | EC50 = 9.68 mg/L 30 min<br>EC50 = 96 mg/L 24 h | EC50: 1.8 - 2.4mg/L<br>(48h, <i>Daphnia magna</i> ) |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | ErC50 (72h) >1640 mg/L<br>Algae ( <i>scenedesmus subspicatus</i> ) (OECD 201) | >1000 mg/l ( <i>Danio rerio</i> )                                    | -  | EC50 (24H) >1000 mg/L<br><i>Daphnia magna</i>       |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

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**Bioaccumulation** There is no data for this product.

## Component Information

| Chemical name                                      | Partition coefficient |
|--|-----------------------|
| Limestone<br>1317-65-3                             | 0.9                   |
| Xylenes (o-, m-, p- isomers)<br>1330-20-7          | 3.15                  |
| Propylene carbonate<br>108-32-7                    | 0.079                 |
| Benzenesulfonyl isocyanate, 4-methyl-<br>4083-64-1 | 0.6                   |
| Ethylbenzene<br>100-41-4                           | 3.2                   |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8    | 4.51                  |

## 12.4. Mobility in soil

**Mobility** No information available.

## Other adverse effects

**Other adverse effects** No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition) The information shown here, may not always agree with the bill of lading shipping description for the material 49 CFR 173.150(f)(2) "The requirements in this subchapter do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant."

## DOT

|                                   |   |
|-----------------------------------|---|
| <b>UN/ID No</b>                   | NA1993  |
| <b>Proper Shipping Name</b>       | Combustible liquid, n.o.s.  |
| <b>Transport hazard class(es)</b> | Combustible liquid  |
| <b>Packing Group</b>              | III   |
| <b>Reportable Quantity (RQ)</b>   | (Xylenes (o-, m-, p- isomers): RQ (kg)= 45.40)                        |
| <b>Special Provisions</b>         | IB3, T1, TP1, 148   |
| <b>Marine Pollutant</b>           | Np  |
| <b>Description</b>                | NA1993, Combustible liquid, n.o.s.(Xylenes (o-, m-, p- isomers)), III |
| <b>Emergency Response Guide</b>   | 128   |

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**IATA** Not regulated

**IMDG** Not regulated

## 15. Regulatory information

### International Inventories

|             |        |
|-------------|--------|
| <b>TSCA</b> | Listed |
| <b>DSL</b>  | Listed |

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**Listed** - The components of this product are either listed or exempt from listing on inventory.

**Not Listed** - One or more components of this product are not listed on inventory.

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                       | CAS No    | SARA 313 - Threshold Values % |
|-------------------------------------|-----------|-------------------------------|
| Xylenes (o-, m-, p- isomers)        | 1330-20-7 | 1.0                           |
| Ethylbenzene                        | 100-41-4  | 0.1                           |
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8  | 1.0                           |

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### California Proposition 65

This product contains one or more of the substances listed on Proposition 65 at or above 0.1 wt.%

| Chemical Name         | CAS NO     |
|-----------------------|------------|
| Ethylbenzene          | 100-41-4   |
| Furan                 | 110-00-9   |
| Carbon Black          | 1333-86-4  |
| Quartz                | 14808-60-7 |
| Titanium dioxide      | 13462-67-7 |
| Methyl alcohol        | 67-56-1    |
| Di-isodecyl phthalate | 68515-49-1 |
| Acetaldehyde          | 75-07-0    |
| Propylene Oxide       | 75-56-9    |
| Cumene                | 98-82-8    |
| Toluene               | 108-88-3   |
| Ethanol               | 64-17-5    |

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## Europe

### Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

### SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## 16. Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

Prepared By Product Safety & Regulatory Affairs.

Revision date 05-Apr-2021

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Supersedes Date: 24-Nov-2020

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Revision note SDS sections updated. 8. 9. 10. 11.

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**