



## Diamond Ceiling White - 54100

### ICP Construction

Version No: 5.6

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **04/30/2018**

Print Date: **04/30/2018**

S.GHS.USA.EN

## SECTION 1 IDENTIFICATION

### Product Identifier

|                               |                               |
|-------------------------------|-------------------------------|
| Product name                  | Diamond Ceiling White - 54100 |
| Synonyms                      | Not Available                 |
| Other means of identification | Not Available                 |

### Recommended use of the chemical and restrictions on use

|                          |       |
|--------------------------|-------|
| Relevant identified uses | Paint |
|--------------------------|-------|

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |   |
|-------------------------|---|
| Registered company name | ICP Construction  |
| Address                 | 150 Dascomb Road MA 01810 United States   |
| Telephone               | 923-623-9980  |
| Fax                     | Not Available   |
| Website                 | <a href="https://www.icp-construction.com/">https://www.icp-construction.com/</a> |
| Email                   | Not Available   |

### Emergency phone number

|                                   |                |
|-----------------------------------|----------------|
| Association / Organisation        | Chemtel        |
| Emergency telephone numbers       | 1-800-255-3924 |
| Other emergency telephone numbers | 1-813-248-0585 |

## SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

|                |  |
|----------------|--|
| Classification | Eye Irritation Category 2A, Carcinogenicity Category 2 |
|----------------|--|

### Label elements

|                     |                |
|---------------------|----------------|
| Hazard pictogram(s) |                |
| SIGNAL WORD         | <b>WARNING</b> |

### Hazard statement(s)

|      |                                |
|------|--------------------------------|
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer.   |

### Hazard(s) not otherwise specified

Not Applicable

**Precautionary statement(s) General**

|      |   |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.  |

**Precautionary statement(s) Prevention**

|      |  |
|------|--|
| P201 | Obtain special instructions before use.        |
| P281 | Use personal protective equipment as required. |

**Precautionary statement(s) Response**

|                |  |
|----------------|--|
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**Precautionary statement(s) Storage**

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

**Precautionary statement(s) Disposal**

|      |   |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No     | %[weight] | Name                        |
|------------|-----------|-----------------------------|
| 124-68-5   | <1        | <u>monoisobutanolamine</u>  |
| 13463-67-7 | 10-15     | <u>titanium dioxide</u>     |
| 1314-56-3  | <1        | <u>phosphorus pentoxide</u> |
| 471-34-1   | <1        | <u>calcium carbonate</u>    |
| 108-05-4   | <1        | <u>vinyl acetate</u>        |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4 FIRST-AID MEASURES****Description of first aid measures**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>   |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>   |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |

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

See Section 11

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

Treat symptomatically.

**SECTION 5 FIRE-FIGHTING MEASURES****Extinguishing media**

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture**

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

**Special protective equipment and precautions for fire-fighters**

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn. May emit corrosive fumes.</li> </ul>                         |

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up**

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> </ul> |
| <b>Major Spills</b> | <p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> </ul>                                    |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling**

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> </ul> |
| <b>Other information</b> |  |

**Conditions for safe storage, including any incompatibilities**

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Polyethylene or polypropylene container.</li> <li>▶ Packing as recommended by manufacturer.</li> </ul>   |
| <b>Storage incompatibility</b> | <p>Titanium dioxide</p> <ul style="list-style-type: none"> <li>▶ reacts with strong acids, strong oxidisers</li> <li>▶ reacts violently with aluminium, calcium, hydrazine, lithium (at around 200 deg C.), magnesium, potassium, sodium, zinc, especially at elevated temperatures - these reactions involves reduction of the oxide and are accompanied by incandescence</li> <li>▶ dust or powders can ignite and then explode in a carbon dioxide atmosphere</li> </ul> <p>Acetic acid:</p> <ul style="list-style-type: none"> <li>▶ vapours forms explosive mixtures with air (above 39 C.)</li> <li>▶ reacts violently with bases such as carbonates and hydroxides (giving off large quantities of heat), oxidisers, organic amines, acetaldehyde, potassium tert-butoxide</li> <li>▶ reacts (sometimes violently), with strong acids, aliphatic amines, alkanolamines, alkylene oxides, epichlorohydrin, acetic anhydride, 2-aminoethanol, ammonia, ammonium nitrate, bromine pentafluoride, chlorosulfonic acid, chromic acid, chromium trioxide, ethylenediamine, ethyleneimine, hydrogen peroxide, isocyanates, oleum, perchloric acid, permanganates, phosphorus isocyanate, phosphorus trichloride, sodium peroxide, xylene</li> <li>▶ attacks cast iron, stainless steel and other metals, forming flammable hydrogen gas</li> <li>▶ attacks many forms of rubber, plastics and coatings</li> </ul> <p>None known</p> |

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****OCCUPATIONAL EXPOSURE LIMITS (OEL)****INGREDIENT DATA**

| Source  | Ingredient        | Material name   | TWA                        | STEL          | Peak          | Notes               |
|---|-------------------|---|----------------------------|---------------|---------------|---------------------|
| US NIOSH Recommended Exposure Limits (RELs)           | titanium dioxide  | Rutile, Titanium oxide, Titanium peroxide   | Not Available              | Not Available | Not Available | Ca See Appendix A   |
| US ACGIH Threshold Limit Values (TLV)                 | titanium dioxide  | Titanium dioxide  | 10 mg/m3                   | Not Available | Not Available | TLV® Basis: LRT irr |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | titanium dioxide  | Titanium dioxide: Total dust  | 15 mg/m3                   | Not Available | Not Available | Not Available       |
| US NIOSH Recommended Exposure Limits (RELs)           | calcium carbonate | Calcium salt of carbonic acid [Note: Occurs in nature as limestone, chalk, marble, dolomite, aragonite, calcite and oyster shells.] | 10 (total), 5 (resp) mg/m3 | Not Available | Not Available | Not Available       |
| US NIOSH Recommended Exposure Limits (RELs)           | calcium carbonate | Calcium carbonate, Natural calcium carbonate [Note: Calcite & aragonite are commercially important natural calcium carbonates.]     | 10 (total), 5 (resp) mg/m3 | Not Available | Not Available | Not Available       |
| US NIOSH Recommended Exposure Limits (RELs)           | calcium carbonate | Calcium carbonate, Natural calcium carbonate [Note: Marble is a metamorphic form of calcium carbonate.]                             | 10 (total), 5 (resp) mg/m3 | Not Available | Not Available | Not Available       |

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|   |                   |  |               |               |                  |  |
|---|-------------------|--|---------------|---------------|------------------|--|
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | calcium carbonate | Limestone: Total dust  | 15 mg/m3      | Not Available | Not Available    | Not Available                                |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | calcium carbonate | Respirable fraction  | 5 mg/m3       | Not Available | Not Available    | Not Available                                |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | calcium carbonate | Calcium carbonate: Total dust  | 15 mg/m3      | Not Available | Not Available    | Not Available                                |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | calcium carbonate | Limestone: Respirable fraction   | 5 mg/m3       | Not Available | Not Available    | Not Available                                |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | calcium carbonate | Marble: Respirable fraction  | 5 mg/m3       | Not Available | Not Available    | Not Available                                |
| US OSHA Permissible Exposure Levels (PELs) - Table Z1 | calcium carbonate | Marble: Total dust   | 15 mg/m3      | Not Available | Not Available    | Not Available                                |
| US NIOSH Recommended Exposure Limits (RELs)           | vinyl acetate     | 1-Acetoxyethylene, Ethenyl acetate, Ethenyl ethanoate, VAC, Vinyl acetate monomer, Vinyl ethanoate | Not Available | Not Available | 15 mg/m3 / 4 ppm | [15-minute]                                  |
| US ACGIH Threshold Limit Values (TLV)                 | vinyl acetate     | Vinyl acetate  | 10 ppm        | 15 ppm        | Not Available    | TLV® Basis: URT, eye, & skin irr; CNS impair |

## EMERGENCY LIMITS

| Ingredient           | Material name                            | TEEL-1        | TEEL-2        | TEEL-3        |
|----------------------|--|---------------|---------------|---------------|
| monoisobutanolamine  | Isobutanol-2-amine                       | 17 mg/m3      | 190 mg/m3     | 570 mg/m3     |
| titanium dioxide     | Titanium oxide; (Titanium dioxide)       | 30 mg/m3      | 330 mg/m3     | 2,000 mg/m3   |
| phosphorus pentoxide | Phosphorus pentoxide                     | Not Available | Not Available | Not Available |
| phosphorus pentoxide | zzSicapent                               | 30 mg/m3      | 330 mg/m3     | 2,000 mg/m3   |
| calcium carbonate    | Limestone; (Calcium carbonate; Dolomite) | 45 mg/m3      | 500 mg/m3     | 3,000 mg/m3   |
| calcium carbonate    | Carbonic acid, calcium salt              | 45 mg/m3      | 210 mg/m3     | 1,300 mg/m3   |
| vinyl acetate        | Vinyl acetate                            | Not Available | Not Available | Not Available |

| Ingredient           | Original IDLH | Revised IDLH  |
|----------------------|---------------|---------------|
| monoisobutanolamine  | Not Available | Not Available |
| titanium dioxide     | 5000 mg/m3    | Not Available |
| phosphorus pentoxide | Not Available | Not Available |
| calcium carbonate    | Not Available | Not Available |
| vinyl acetate        | Not Available | Not Available |

## Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.   |
| <b>Personal protection</b>              |   |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> </ul>   |
| <b>Skin protection</b>                  | See Hand protection below  |
| <b>Hands/feet protection</b>            | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> |
| <b>Body protection</b>                  | See Other protection below   |
| <b>Other protection</b>                 | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C.</li> </ul>  |

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|  |               |  |               |
|--|---------------|--|---------------|
| <b>Appearance</b>                          | Not Available |  |               |
| <b>Physical state</b>                      | Liquid        | <b>Relative density (Water = 1)</b>            | Not Available |
| <b>Odour</b>                               | Not Available | <b>Partition coefficient n-octanol / water</b> | Not Available |
| <b>Odour threshold</b>                     | Not Available | <b>Auto-ignition temperature (°C)</b>          | Not Available |
| <b>pH (as supplied)</b>                    | Not Available | <b>Decomposition temperature</b>               | Not Available |
| <b>Melting point / freezing point (°C)</b> | Not Available | <b>Viscosity (cSt)</b>                         | Not Available |

|  |               |                                  |               |
|--|---------------|----------------------------------|---------------|
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol)         | Not Available |
| Flash point (°C)                             | Not Available | Taste                            | Not Available |
| Evaporation rate                             | Not Available | Explosive properties             | Not Available |
| Flammability                                 | Not Available | Oxidising properties             | Not Available |
| Upper Explosive Limit (%)                    | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%)                    | Not Available | Volatile Component (%vol)        | Not Available |
| Vapour pressure (kPa)                        | Not Available | Gas group                        | Not Available |
| Solubility in water (g/L)                    | Immiscible    | pH as a solution (1%)            | Not Available |
| Vapour density (Air = 1)                     | Not Available | VOC g/L                          | Not Available |

## SECTION 10 STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | See section 7  |
| Chemical stability                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

|              |  |
|--------------|--|
| Inhaled      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  |
| Ingestion    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.   |
| Skin Contact | <p>Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.</p> <p>There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> |
| Eye          | This material can cause eye irritation and damage in some persons.   |
| Chronic      | <p>Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.</p> <p>There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.</p>  |

|                               |  |  |
|-------------------------------|--|--|
| Diamond Ceiling White - 54100 | TOXICITY   | IRRITATION   |
|                               | Not Available  | Not Available  |
| monoisobutanolamine           | TOXICITY   | IRRITATION   |
|                               | Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup><br>Oral (rat) LD50: 2900 mg/kg <sup>[2]</sup>     | Not Available  |
| titanium dioxide              | TOXICITY   | IRRITATION   |
|                               | Inhalation (rat) LC50: >2.28 mg/l4 h <sup>[1]</sup><br>Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup> | Skin (human): 0.3 mg /3D (int)-mild *                                    |
| phosphorus pentoxide          | TOXICITY   | IRRITATION   |
|                               | Inhalation (rat) LC50: 0.30425 mg/l/1hE <sup>[2]</sup>   | Eye: SEVERE<br>Skin : SEVERE   |
| calcium carbonate             | TOXICITY   | IRRITATION   |
|                               | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup><br>Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>       | Eye (rabbit): 0.75 mg/24h - SEVERE<br>Skin (rabbit): 500 mg/24h-moderate |

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| vinyl acetate | TOXICITY   | IRRITATION                    |
|---------------|--|-------------------------------|
|               | Dermal (rabbit) LD50: 2335 mg/kg <sup>[2]</sup>    | Eye (human): 22 ppm irritant  |
|               | Inhalation (rat) LC50: 11.4 mg/l/4H <sup>[2]</sup> | Eye (rabbit): 500 mg/24h mild |
|               | Oral (rat) LD50: 2900 mg/kg <sup>[2]</sup>         | irritant                      |
|               |  | Skin (rabbit): 10 mg/24h open |

**Legend:**

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. \* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|  |   |
|--|---|
| <b>TITANIUM DIOXIDE</b>                            | The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system.<br>* IUCLID   |
| <b>PHOSPHORUS PENTOXIDE</b>                        | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. |
| <b>TITANIUM DIOXIDE &amp; PHOSPHORUS PENTOXIDE</b> | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.  |
| <b>TITANIUM DIOXIDE &amp; VINYL ACETATE</b>        | <b>WARNING:</b> This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.  |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ☐ | Carcinogenicity          | ✓ |
| Skin Irritation/Corrosion         | ☐ | Reproductivity           | ☐ |
| Serious Eye Damage/Irritation     | ✓ | STOT - Single Exposure   | ☐ |
| Respiratory or Skin sensitisation | ☐ | STOT - Repeated Exposure | ☐ |
| Mutagenicity                      | ☐ | Aspiration Hazard        | ☐ |

Legend: ✗ - Data available but does not fill the criteria for classification

✓ - Data available to make classification

☐ - Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

|                               |               |                    |                               |               |               |
|-------------------------------|---------------|--------------------|-------------------------------|---------------|---------------|
| Diamond Ceiling White - 54100 | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                               | Not Available | Not Available      | Not Available                 | Not Available | Not Available |
| monoisobutanolamine           | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                               | LC50          | 96                 | Fish                          | =100mg/L      | 1             |
|                               | EC50          | 48                 | Crustacea                     | =193mg/L      | 1             |
|                               | EC0           | 48                 | Crustacea                     | =100mg/L      | 1             |
| titanium dioxide              | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                               | LC50          | 96                 | Fish                          | 155mg/L       | 2             |
|                               | EC50          | 48                 | Crustacea                     | >10mg/L       | 2             |
|                               | EC50          | 72                 | Algae or other aquatic plants | 5.83mg/L      | 4             |
|                               | EC20          | 72                 | Algae or other aquatic plants | 1.81mg/L      | 4             |
|                               | NOEC          | 336                | Fish                          | 0.089mg/L     | 4             |
| phosphorus pentoxide          | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                               | Not Available | Not Available      | Not Available                 | Not Available | Not Available |
| calcium carbonate             | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                               | LC50          | 96                 | Fish                          | >56000mg/L    | 4             |
|                               | EC50          | 72                 | Algae or other aquatic plants | >14mg/L       | 2             |
|                               | NOEC          | 72                 | Algae or other aquatic plants | 14mg/L        | 2             |
| vinyl acetate                 | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                               | LC50          | 96                 | Fish                          | 14mg/L        | 4             |

Continued...

|      |     |                               |           |   |
|------|-----|-------------------------------|-----------|---|
| EC50 | 48  | Crustacea                     | 12.6mg/L  | 2 |
| EC50 | 72  | Algae or other aquatic plants | 7.48mg/L  | 2 |
| NOEC | 816 | Fish                          | 0.551mg/L | 2 |

**Legend:** Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested

#### Persistence and degradability

| Ingredient          | Persistence: Water/Soil | Persistence: Air |
|---------------------|-------------------------|------------------|
| monoisobutanolamine | LOW                     | LOW              |
| titanium dioxide    | HIGH                    | HIGH             |
| vinyl acetate       | LOW                     | LOW              |

#### Bioaccumulative potential

| Ingredient          | Bioaccumulation  |
|---------------------|------------------|
| monoisobutanolamine | LOW (BCF = 330)  |
| titanium dioxide    | LOW (BCF = 10)   |
| vinyl acetate       | LOW (BCF = 2.34) |

#### Mobility in soil

| Ingredient          | Mobility             |
|---------------------|----------------------|
| monoisobutanolamine | MEDIUM (KOC = 2.196) |
| titanium dioxide    | LOW (KOC = 23.74)    |
| vinyl acetate       | LOW (KOC = 6.131)    |

### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.</p> <ul style="list-style-type: none"> <li>▶ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ Recycle wherever possible.</li> <li>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> </ul> |
|-------------------------------------|--|

### SECTION 14 TRANSPORT INFORMATION

#### Labels Required

|                         |    |
|-------------------------|----|
| <b>Marine Pollutant</b> | NO |
|-------------------------|----|

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### SECTION 15 REGULATORY INFORMATION

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

##### MONOISOBUTANOLAMINE(124-68-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Massachusetts - Right To Know Listed Chemicals

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US - Pennsylvania - Hazardous Substance List

US TSCA Chemical Substance Inventory - Interim List of Active Substances

##### TITANIUM DIOXIDE(13463-67-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

## Diamond Ceiling White - 54100

|   |  |
|---|--|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs | US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants      |
| US - Alaska Limits for Air Contaminants   | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants    |
| US - California Proposition 65 - Carcinogens  | US - Washington Permissible exposure limits of air contaminants                                  |
| US - Hawaii Air Contaminant Limits  | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants                 |
| US - Idaho - Limits for Air Contaminants  | US ACGIH Threshold Limit Values (TLV)  |
| US - Massachusetts - Right To Know Listed Chemicals   | US ACGIH Threshold Limit Values (TLV) - Carcinogens  |
| US - Michigan Exposure Limits for Air Contaminants  | US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule |
| US - Minnesota Permissible Exposure Limits (PELs)   | US NIOSH Recommended Exposure Limits (RELs)  |
| US - Oregon Permissible Exposure Limits (Z-1)   | US OSHA Permissible Exposure Levels (PELs) - Table Z1  |
| US - Pennsylvania - Hazardous Substance List  | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                            |
| US - Rhode Island Hazardous Substance List  | US TSCA Chemical Substance Inventory - Interim List of Active Substances                         |
| US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                     | US TSCA Section 12(b) - List of Chemical Substances Subject to Export Notification Requirements  |

**PHOSPHORUS PENTOXIDE(1314-56-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

|   |  |
|---|--|
| US - Massachusetts - Right To Know Listed Chemicals | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory    |
| US - Pennsylvania - Hazardous Substance List        | US TSCA Chemical Substance Inventory - Interim List of Active Substances |

**CALCIUM CARBONATE(471-34-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

|   |   |
|---|---|
| US - Alaska Limits for Air Contaminants             | US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants                     |
| US - Hawaii Air Contaminant Limits                  | US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants   |
| US - Idaho - Limits for Air Contaminants            | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - Massachusetts - Right To Know Listed Chemicals | US - Washington Permissible exposure limits of air contaminants                               |
| US - Michigan Exposure Limits for Air Contaminants  | US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants              |
| US - Minnesota Permissible Exposure Limits (PELs)   | US NIOSH Recommended Exposure Limits (RELs)   |
| US - Oregon Permissible Exposure Limits (Z-1)       | US OSHA Permissible Exposure Levels (PELs) - Table Z1   |
| US - Pennsylvania - Hazardous Substance List        | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Rhode Island Hazardous Substance List          | US TSCA Chemical Substance Inventory - Interim List of Active Substances                      |

**VINYL ACETATE(108-05-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

|   |   |
|---|---|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs                             | US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants   |
| International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft | US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants |
| US - Alaska Limits for Air Contaminants   | US - Washington Permissible exposure limits of air contaminants                               |
| US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)                                   | US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values      |
| US - California Permissible Exposure Limits for Chemical Contaminants   | US ACGIH Threshold Limit Values (TLV)   |
| US - Hawaii Air Contaminant Limits  | US ACGIH Threshold Limit Values (TLV) - Carcinogens   |
| US - Massachusetts - Right To Know Listed Chemicals   | US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)                                  |
| US - Michigan Exposure Limits for Air Contaminants  | US Clean Air Act - Hazardous Air Pollutants   |
| US - Minnesota Permissible Exposure Limits (PELs)   | US CWA (Clean Water Act) - List of Hazardous Substances                                       |
| US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens                                 | US EPCRA Section 313 Chemical List  |
| US - Oregon Permissible Exposure Limits (Z-1)   | US NIOSH Recommended Exposure Limits (RELs)   |
| US - Pennsylvania - Hazardous Substance List  | US SARA Section 302 Extremely Hazardous Substances  |
| US - Rhode Island Hazardous Substance List  | US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory                         |
| US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants   | US TSCA Chemical Substance Inventory - Interim List of Active Substances                      |

**Federal Regulations****Superfund Amendments and Reauthorization Act of 1986 (SARA)****SECTION 311/312 HAZARD CATEGORIES**

|   |     |
|---|-----|
| Flammable (Gases, Aerosols, Liquids, or Solids) | No  |
| Gas under pressure                              | No  |
| Explosive                                       | No  |
| Self-heating                                    | No  |
| Pyrophoric (Liquid or Solid)                    | No  |
| Pyrophoric Gas                                  | No  |
| Corrosive to metal                              | No  |
| Oxidizer (Liquid, Solid or Gas)                 | No  |
| Organic Peroxide                                | No  |
| Self-reactive                                   | No  |
| In contact with water emits flammable gas       | No  |
| Combustible Dust                                | No  |
| Carcinogenicity                                 | Yes |
| Acute toxicity (any route of exposure)          | No  |
| Reproductive toxicity                           | No  |
| Skin Corrosion or Irritation                    | No  |



|  |     |
|--|-----|
| Respiratory or Skin Sensitization                            | No  |
| Serious eye damage or eye irritation                         | Yes |
| Specific target organ toxicity (single or repeated exposure) | No  |
| Aspiration Hazard  | No  |
| Germ cell mutagenicity                                       | No  |
| Simple Asphyxiant  | No  |

**US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)**

| Name          | Reportable Quantity in Pounds (lb) | Reportable Quantity in kg |
|---------------|------------------------------------|---------------------------|
| Vinyl acetate | 5000                               | 2270                      |

**State Regulations****US. CALIFORNIA PROPOSITION 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

**US - CALIFORNIA PROPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE**

Titanium dioxide (airborne, unbound particles of respirable size) Listed

| National Inventory            | Status   |
|-------------------------------|--|
| Australia - AICS              | Y  |
| Canada - DSL                  | Y  |
| Canada - NDSL                 | N (monoisobutanolamine; phosphorus pentoxide; vinyl acetate) |
| China - IECSC                 | Y  |
| Europe - EINEC / ELINCS / NLP | Y  |
| Japan - ENCS                  | Y  |
| Korea - KECI                  | Y  |
| New Zealand - NZIoC           | Y  |
| Philippines - PICCS           | Y  |
| USA - TSCA                    | Y  |

**Legend:**  
Y = All ingredients are on the inventory  
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

**SECTION 16 OTHER INFORMATION**

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 04/30/2018 |
| <b>Initial Date</b>  | 05/01/2018 |

**CONTACT POINT**

\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

**Other information****Ingredients with multiple cas numbers**

| Name                 | CAS No  |
|----------------------|---|
| titanium dioxide     | 13463-67-7, 1317-70-0, 1317-80-2, 12188-41-9, 1309-63-3, 100292-32-8, 101239-53-6, 116788-85-3, 12000-59-8, 12701-76-7, 12767-65-6, 12789-63-8, 1344-29-2, 185323-71-1, 185828-91-5, 188357-76-8, 188357-79-1, 195740-11-5, 221548-98-7, 224963-00-2, 246178-32-5, 252962-41-7, 37230-92-5, 37230-94-7, 37230-95-8, 37230-96-9, 39320-58-6, 39360-64-0, 39379-02-7, 416845-43-7, 494848-07-6, 494848-23-6, 494851-77-3, 494851-98-8, 55068-84-3, 55068-85-4, 552316-51-5, 62338-64-1, 767341-00-4, 97929-50-5, 98084-96-9 |
| phosphorus pentoxide | 1314-56-3, 16752-60-6   |
| calcium carbonate    | 471-34-1, 13397-26-7, 15634-14-7, 1317-65-3, 72608-12-9, 878759-26-3, 63660-97-9, 459411-10-0, 198352-33-9, 146358-95-4   |

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

**Definitions and abbreviations**

PC—TWA: Permissible Concentration-Time Weighted Average  
PC—STEL: Permissible Concentration-Short Term Exposure Limit  
IARC: International Agency for Research on Cancer  
ACGIH: American Conference of Governmental Industrial Hygienists  
STEL: Short Term Exposure Limit  
TEEL: Temporary Emergency Exposure Limit,  
IDLH: Immediately Dangerous to Life or Health Concentrations  
OSF: Odour Safety Factor  
NOAEL: No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

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