SECTION 1. IDENTIFICATION

Product name : MasterSeal 581 prl gry
Product code : 000000000050354711 000000000050354711

Manufacturer or supplier’s details
Company name of supplier : Colorbiotics, LLC
Address : 23700 CHAGRIN BLVD
          Beachwood OH 44122
Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use
Recommended use : Product for construction chemicals
Restrictions on use : Reserved for industrial and professional use.

National Emergency Telephone Number : USA: +1-800-255-3924 ChemTel contract no. MIS9240420

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Skin irritation : Category 2
Serious eye damage : Category 1
Carcinogenicity (Inhalation) : Category 1A
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Lungs)
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Kidney, Immune system)

GHS label elements
Hazard pictograms : ⚠️ ⚠️ ⚠️
Signal Word : Danger
Hazard Statements:
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H350 May cause cancer by inhalation.
- H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
- H373 May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

Precautionary Statements:

Prevention:
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.

Storage:
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Disposal:
- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards:
In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement, portland, chemicals</td>
<td>65997-15-1</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

MasterSeal 581 prl gry

| crystalline silica | 14808-60-7 | >= 30 - < 50 |
| Calcium dihydroxide | 1305-62-0 | >= 1 - < 5 |
| Titanium dioxide | 13463-67-7 | >= 1 - < 5 |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice: First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled: After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Seek medical attention.

In case of skin contact: After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

In case of eye contact: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. If eye irritation persists, consult a specialist.

If swallowed: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Most important symptoms and effects, both acute and delayed: Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure if inhaled. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure if inhaled.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam Water spray Dry powder Carbon dioxide (CO2) Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.
SAFETY DATA SHEET

MasterSeal 581 prl gry

Unsuitable extinguishing media: water jet

Specific hazards during fire fighting:
- Product is not combustible or explosive.
- Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:
- harmful vapours

Further information:
- Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.
- The degree of risk is governed by the burning substance and the fire conditions.
- Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special protective equipment for fire-fighters:
- Wear self-contained breathing apparatus and chemical-protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- Avoid dust formation.
- Avoid contact with skin and eyes.
- Use personal protective clothing.
- Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:
- Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up:
- Sweep up and shovel into suitable containers for disposal.
- Avoid dust formation.
- Rinse with plenty of water.
- Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:
- No special precautions necessary.

Advice on safe handling:
- Avoid dust formation.
- Avoid inhalation of dusts.
- Avoid contact with skin and eyes.
- The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore.
- Pour downwind and allow as little free fall as possible while emptying bags into equipment.
- Breathing must be protected when large quantities are decanted without local exhaust ventilation.
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Materials to avoid: No applicable information available.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium dihydroxide</td>
<td>1305-62-0</td>
<td>TWA value</td>
<td>5 mg/m³</td>
<td>ACGIHTLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL value</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (Respirable fraction)</td>
<td>5 mg/m³</td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PEL (Total dust)</td>
<td>15 mg/m³</td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
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<td></td>
<td></td>
<td>TWA value</td>
<td>5 mg/m³</td>
<td>29 CFR 1910.1000 (Table Z-1-A)</td>
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<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>ACGIHTLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>Calcium oxide</td>
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<td>TWA</td>
<td>2 mg/m³</td>
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<td>OSHA Z-1</td>
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<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
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<tr>
<td>Iron oxide</td>
<td>1309-37-1</td>
<td>TWA (Respirable particulate matter)</td>
<td>5 mg/m³</td>
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<td>TWA (dust and fume)</td>
<td>5 mg/m³ (Iron)</td>
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<td>TWA (Fumes)</td>
<td>10 mg/m³</td>
<td>OSHA Z-1</td>
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<td></td>
<td></td>
<td>TWA (total dust)</td>
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<td>OSHA Z-1</td>
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<td></td>
<td>TWA (Fumes)</td>
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<td>Magnesium oxide</td>
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<td>Compound</td>
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<td>PEL (Respirable fraction)</td>
<td>5 mg/m³</td>
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<td>PEL (Total dust)</td>
<td>15 mg/m³</td>
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<td>TWA value (Respirable fraction)</td>
<td>5 mg/m³</td>
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<td>TWA (total dust)</td>
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<tr>
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<td>TWA (Total dust)</td>
<td>15 mg/m³</td>
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<tr>
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<td>TWA (respirable dust fraction)</td>
<td>5 mg/m³</td>
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<tr>
<td></td>
<td>TWA (Respirable)</td>
<td>5 mg/m³ Calcium carbonate</td>
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<td>10 mg/m³ Calcium carbonate</td>
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<td>TWA (total dust)</td>
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<tr>
<td>Gypsum (Ca(SO₄).2H₂O)</td>
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<td>TWA (total)</td>
<td>10 mg/m³ NIOSH REL</td>
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<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
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</tr>
<tr>
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<td>TWA (Total dust)</td>
<td>15 mg/m³ NIOSH REL</td>
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</tr>
<tr>
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<td>TWA (respirable dust fraction)</td>
<td>5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA (Inhalable particulate matter)</td>
<td>10 mg/m³ ACgIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>TWA (total dust)</td>
<td>15 mg/m³ OSHA Z-1</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>TWA (Total dust)</td>
<td>10 mg/m³ OSHA P0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>TWA (Respirable dust)</td>
<td>ACGIH</td>
<td></td>
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<tr>
<td>----------------</td>
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<td>-----------------------</td>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>10 mg/m3 / %SiO2+2</td>
<td>OSHA Z-3</td>
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<tr>
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<td>250 mppcf / %SiO2+5</td>
<td>0.1 mg/m3</td>
<td>OSHA P0</td>
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<tr>
<td></td>
<td>TWA (Respirable particulate matter)</td>
<td>0.025 mg/m3 (Silica)</td>
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<td></td>
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<tr>
<td>PEL (respirable)</td>
<td>0.05 mg/m3</td>
<td></td>
<td>OSHA CARC</td>
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<tr>
<td>TWA (Respirable dust)</td>
<td>0.05 mg/m3 (Silica)</td>
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<tr>
<td>Cement, portland, chemicals</td>
<td>65997-15-1</td>
<td>TWA value (Respirable fraction)</td>
<td>1 mg/m3</td>
<td>ACGIHTLV</td>
</tr>
<tr>
<td>REL value (Total)</td>
<td>10 mg/m3</td>
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<td>NIOSH</td>
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<tr>
<td>REL value (Respirable)</td>
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<td>NIOSH</td>
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</tr>
<tr>
<td>PEL (Total dust)</td>
<td>15 mg/m3</td>
<td>29 CFR 1910.1000</td>
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<tr>
<td>PEL (Respirable fraction)</td>
<td>5 mg/m3</td>
<td>29 CFR 1910.1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA value (Total dust)</td>
<td>10 mg/m3</td>
<td>29 CFR 1910.1000</td>
<td></td>
<td></td>
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<tr>
<td>TWA value (Respirable fraction)</td>
<td>5 mg/m3</td>
<td>29 CFR 1910.1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA value</td>
<td>50 millions of particles per cubic foot of air</td>
<td>29 CFR 1910.1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA (Respirable particulate matter)</td>
<td>1 mg/m3</td>
<td>ACGIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA (Respirable)</td>
<td>5 mg/m3</td>
<td></td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td>TWA (total)</td>
<td>10 mg/m3</td>
<td></td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td>TWA (total dust)</td>
<td>15 mg/m3</td>
<td></td>
<td>OSHA Z-1</td>
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<tr>
<td>TWA (respirable fraction)</td>
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<td>OSHA Z-1</td>
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</tr>
<tr>
<td>TWA (Total dust)</td>
<td>10 mg/m3</td>
<td></td>
<td>OSHA P0</td>
<td></td>
</tr>
</tbody>
</table>
### Personal protective equipment

**Respiratory protection**: Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

**Hand protection**

**Remarks**: Chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

**Eye protection**: Tightly fitting safety goggles (chemical goggles).

**Skin and body protection**: Body protection must be chosen based on level of activity and exposure.

**Protective measures**

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice.

**Hygiene measures**

When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>Various colours</td>
</tr>
<tr>
<td>Odor</td>
<td>Earthy</td>
</tr>
<tr>
<td>pH</td>
<td>Slightly alkaline</td>
</tr>
<tr>
<td>Melting temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Boiling point : No applicable information available.

Flash point : Not applicable

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Self-ignition : not self-igniting

Upper explosion limit / Upper flammability limit : No applicable information available.

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No applicable information available.

Relative vapor density : No applicable information available.

Relative density : 2.70

Density : Not applicable

Bulk density : 1,800 - 2,400 kg/m³

Solubility(ies)
  Water solubility : No data available
  Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : No applicable information available.

Autoignition temperature : No applicable information available.

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
  Viscosity, dynamic : No data available.
  Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive
  Not explosive

Oxidizing properties : Based on its structural properties the product is not classified as oxidizing.

Self-heating substances : No data available
SAFETY DATA SHEET

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Sublimation point : No applicable information available.
Molecular weight : No applicable information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability : The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions : Strong bases are formed on the addition of water. The product is stable if stored and handled as prescribed/indicated.
Conditions to avoid : Avoid dust formation. Avoid humidity.
Incompatible materials : Strong bases
                      Strong acids
Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.
Not classified based on available information.

Product:
Acute oral toxicity : Remarks: No applicable information available.
Acute inhalation toxicity : Remarks: No applicable information available.
Acute dermal toxicity : Remarks: No applicable information available.

Skin corrosion/irritation
Causes skin irritation.
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.
Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

Skin sensitization
Not classified based on available information.
Respiratory sensitization
Not classified based on available information.

Respiratory sensitization
Not classified based on available information.

**Product:**
Remarks: Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

Germ cell mutagenicity
Not classified based on available information.
Not classified based on available information.

Carcinogenicity
May cause cancer.
May cause cancer by inhalation.

**Reproductive toxicity**
Not classified based on available information.
Not classified based on available information.

**STOT-single exposure**
May cause respiratory irritation.
May cause respiratory irritation.

**STOT-repeated exposure**
Causes damage to organs through prolonged or repeated exposure if inhaled.
Causes damage to organs (Lung, Kidney, Immune system) through prolonged or repeated exposure if inhaled.
Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

**Aspiration toxicity**
Not classified based on available information.
Not classified based on available information.

**Experience with human exposure**

**Product:**
Skin contact: Remarks: In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

**Further information**

**Product:**
Remarks: Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.
Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Product:
Biodegradability : Remarks: Not applicable for inorganic substances.

Bioaccumulative potential

Product:
Bioaccumulation : Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in soil

Product:
Distribution among environmental compartments : Remarks: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected. The substance will not evaporate into the atmosphere from the water surface.

Other adverse effects

Product:
Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Completely emptied packagings can be given for recycling. Packs that cannot be cleaned should be disposed of in the same manner as the contents.
SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

DSL : This product contains one or more components not listed on the Canadian DSL or NDSL. All other components are on the Canadian DSL.

TSCA : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information
NFPA 704:

- Flammability: 3
- Health: 0
- Special hazard
- Instability: 0

HMIS® IV:

- HEALTH
- FLAMMABILITY
- PHYSICAL HAZARD

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations:

- 29 CFR 1910.1000 (Table Z-1-A): OSHA - Table Z-1-A (29 CFR 1910.1000)
- 29 CFR 1910.1000 (Table Z-1): OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
- 29 CFR 1910.1000 (Table Z-3): OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000
- ACGIH: USA, ACGIH Threshold Limit Values (TLV)
- ACGIHTLV: American Conference of Governmental Industrial Hygienists - threshold limit values (US)
- NIOSH: NIOSH Pocket Guide to Chemical Hazards (US)
- NIOSH REL: USA, NIOSH Recommended Exposure Limits
- OSHA CARC: OSHA Specifically Regulated Chemicals/Carcinogens
- OSHA P0: USA, OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- OSHA Z-1: USA, Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- OSHA Z-3: USA, Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
- 29 CFR 1910.1000 (Table Z-1-A) / TWA value: Time Weighted Average (TWA):
- 29 CFR 1910.1000 (Table Z-1) / PEL: Permissible exposure limit
- 29 CFR 1910.1000 (Table Z-3) / TWA value: Time Weighted Average (TWA):
- ACGIH / TWA: 8-hour, time-weighted average
- ACGIHTLV / TWA value: Time Weighted Average (TWA):
- NIOSH / REL value: Recommended exposure limit (REL):
- NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- OSHA CARC / PEL: Permissible exposure limit (PEL)
- OSHA P0 / TWA: 8-hour time weighted average
- OSHA Z-1 / TWA: 8-hour time weighted average
- OSHA Z-3 / TWA: 8-hour time weighted average
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.

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