SECTION 1. IDENTIFICATION

Product name : MasterEmaco S 211SP
Product code : 000000000051701859 000000000051701859

Manufacturer or supplier’s details
Company name of supplier : PCI Bauprodukte AG
Address : Im Schachen
Holderbank AG 5113
Telephone : +41589582121
Telefax : +41589583122
Emergency telephone : ChemTel: +1-813-248-0585; Tox Info Suisse (STIZ): 145

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Skin corrosion/irritation : 2
Serious eye damage/eye irritation : Category 1
Carcinogenicity (Inhalation) : 1A (Lung)
Specific target organ toxicity - single exposure : 3
Specific target organ toxicity - repeated exposure (Inhalation) : 2 (Kidney, Immune system)
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1

GHS label elements
Hazard pictograms :

Signal Word : Danger
Hazard Statements : H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H372 Causes damage to organs through prolonged or repeated exposure.
exposure if inhaled.

Precautionary Statements:

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

**Response:**
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor/p
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it 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 appropriate hazardous waste collection point.

Other hazards
No data available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature:** No data available.

**Components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>&gt;= 50 - &lt; 75</td>
</tr>
<tr>
<td>Cement, portland, chemicals</td>
<td>65997-15-1</td>
<td>&gt;= 20 - &lt; 25</td>
</tr>
<tr>
<td>Gypsum (Ca(SO4).2H2O)</td>
<td>13397-24-5</td>
<td>&gt;= 0.1 - &lt; 3</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>&gt;= 0 - &lt; 3</td>
</tr>
<tr>
<td>sodium nitrite</td>
<td>7632-00-0</td>
<td>&gt;= 0.1 - &lt; 0.2</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**General advice:** Move out of dangerous area.
Consult a physician. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled:
Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.

In case of skin contact:
If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact:
Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed:
Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Notes to physician:
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Water spray
Foam
Dry powder
Carbon dioxide (CO2)

Unsuitable extinguishing media:
High volume water jet

Specific hazards during firefighting:
Do not allow run-off from fire fighting to enter drains or water courses.

Further information:
Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters:
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES
SAFETY DATA SHEET
MasterEmaco S 211SP

Version 1.0
Revision Date: 09/03/2020
SDS Number: 000000259901
Date of last issue: -
Date of first issue: 09/03/2020

Personal precautions, protective equipment and emergency procedures:
- Use personal protective equipment.
- Avoid dust formation.
- Avoid breathing dust.
- Ensure adequate ventilation.

Environmental precautions:
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
- Neutralize with acid.
- Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:
- Avoid dust formation.
- Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling:
- Avoid formation of respirable particles.
- Do not breathe vapors/dust.
- Avoid exposure - obtain special instructions before use.
- Avoid contact with skin and eyes.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage:
- Keep container tightly closed in a dry and well-ventilated place.
- Observe label precautions.
- Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions:
- Containers should be stored tightly sealed in a dry place.

Materials to avoid:
- Segregate from metals.
- Segregate from acids and bases.
- Segregate from oxidants.
- Segregate from foods and animal feeds.

Further information on storage stability:
- No data 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>
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<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>REL value (Respirable)</td>
<td>5 mg/m3</td>
<td>NIOSH</td>
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</table>

4 / 15
<table>
<thead>
<tr>
<th></th>
<th>REL value (Total)</th>
<th>10 mg/m³</th>
<th>NIOSH</th>
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<tr>
<td>PEL (Respirable fraction)</td>
<td>5 mg/m³</td>
<td></td>
<td>29 CFR 1910.1000 (Table Z-1)</td>
</tr>
<tr>
<td>PEL (Total dust)</td>
<td>15 mg/m³</td>
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<td>29 CFR 1910.1000 (Table Z-1)</td>
</tr>
<tr>
<td>TWA value (Respirable fraction)</td>
<td>5 mg/m³</td>
<td></td>
<td>29 CFR 1910.1000 (Table Z-1-A)</td>
</tr>
<tr>
<td>TWA value (Total dust)</td>
<td>15 mg/m³</td>
<td></td>
<td>29 CFR 1910.1000 (Table Z-1-A)</td>
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<tr>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td></td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
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<td>OSHA Z-1</td>
</tr>
<tr>
<td>TWA (Total dust)</td>
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<td></td>
<td>OSHA P0</td>
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<td>TWA (respirable dust fraction)</td>
<td>5 mg/m³</td>
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<td>OSHA P0</td>
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<td>TWA (Respirable)</td>
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<tr>
<td>TWA (total)</td>
<td>10 mg/m³</td>
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<td>NIOSH REL</td>
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**Gypsum (Ca(SO₄)₂H₂O)**

<table>
<thead>
<tr>
<th>REL value (Inhalable fraction)</th>
<th>10 mg/m³</th>
<th>ACGIHTLV</th>
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<tr>
<td>REL value (Respirable)</td>
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<tr>
<td>REL value (Total)</td>
<td>10 mg/m³</td>
<td>NIOSH</td>
</tr>
<tr>
<td>PEL (Total dust)</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td>PEL (Respirable fraction)</td>
<td>5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>TWA value (Total dust)</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td>TWA value (Respirable fraction)</td>
<td>5 mg/m³</td>
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<tr>
<td>TWA (respirable)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
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Gypsum (Ca(SO₄)₂H₂O) 13397-24-5
<table>
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<th>Substance</th>
<th>TWA (Respirable fraction)</th>
<th>REL value (Respirable fraction)</th>
<th>PEL (Respirable fraction)</th>
<th>TWA (Total dust)</th>
<th>REL value (Respirable fraction)</th>
<th>PEL (Total dust)</th>
<th>OSHA Action level</th>
<th>PEL (Respirable fraction)</th>
<th>TWA (Respirable fraction)</th>
<th>REL value (Total)</th>
<th>PEL (Total dust)</th>
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<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>0.025 mg/m3</td>
<td>0.05 mg/m3</td>
<td>0.05 mg/m3</td>
<td>15 mg/m3</td>
<td>0.05 mg/m3</td>
<td>5 mg/m3</td>
<td>0.05 mg/m3</td>
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<td>10 mg/m3</td>
<td>15 mg/m3</td>
</tr>
<tr>
<td>Cement, Portland, Chemicals</td>
<td>1 mg/m3</td>
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<td>15 mg/m3</td>
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<td>5 mg/m3</td>
<td>0.025 mg/m3</td>
<td>0.025 mg/m3</td>
<td>10 mg/m3</td>
<td>0.025 mg/m3</td>
<td>0.05 mg/m3</td>
</tr>
</tbody>
</table>
## Engineering measures
Provide local exhaust ventilation to maintain recommended P.E.L.

### Personal protective equipment

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

#### Hand protection

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

#### Eye protection
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

#### Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### 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 or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance
powder
### Safety Data Sheet

**MasterEmaco S 211SP**

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<td>09/03/2020</td>
<td>000000259901</td>
<td>-</td>
<td>09/03/2020</td>
</tr>
</tbody>
</table>

- **Color**: white
- **Odor**: odorless
- **Odor Threshold**: Not determined due to potential health hazard by inhalation.
- **pH**: approx. 12 - 13
  (as aqueous suspension)
- **Melting point**: No applicable information available.
- **boiling temperature**: Not applicable
- **Flash point**: does not flash
- **Evaporation rate**: No applicable information available.
- **Flammability (solid, gas)**: not flammable
- **Upper explosion limit / Upper flammability limit**: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
- **Lower explosion limit / Lower flammability limit**: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
- **Vapor pressure**: No applicable information available.
- **Relative vapor density**: Heavier than air.
- **Relative density**: No data available.
- **Bulk density**: approx. 1,800 - 2,400 kg/m³
- **Solubility(ies)**: No applicable information available.
  - **Water solubility**: dispersible (68 °F / 20 °C)
  - **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**: No applicable information available.
  - **Viscosity, dynamic**: Not explosive
  - **Viscosity, kinematic**: Not explosive
- **Explosive properties**: Not explosive
Oxidizing properties : Based on its structural properties the product is not classified as oxidizing.

Self-heating substances : No data available

Sublimation point : No applicable information available.

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Conditions to avoid : See SDS section 7 - Handling and storage.
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.

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.

Product:
Remarks : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation
Causes serious eye damage.

Product:
Remarks : May cause irreversible eye damage.

Respiratory or skin sensitization

Skin 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.

Carcinogenicity
May cause cancer.

Reproductive toxicity
Not classified based on available information.

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

**STOT-repeated exposure**
Causes damage to organs through prolonged or repeated exposure if inhaled.
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity
Not classified based on available information.

**Further information**

**Product:**
Remarks: No data available

**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.
Components:

Quartz (SiO2):
Partition coefficient: n-octanol/water : Remarks: not applicable

Cement, portland, chemicals:
Partition coefficient: n-octanol/water : GLP: no
Remarks: not applicable

Gypsum (Ca(SO4).2H2O):
Partition coefficient: n-octanol/water : Remarks: The value has not been determined because the substance is inorganic.

sodium nitrite:

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:
Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : There is a high probability that the product is not acutely harmful to aquatic organisms.
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 : Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with national, state and local regulations.
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
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

US State Regulations

Pennsylvania Right To Know
Quartz (SiO2) 14808-60-7
Silicon dioxide 7631-86-9
Cement, portland, chemicals 65997-15-1
listed

New Jersey Right To Know
Cement, portland, chemicals 65997-15-1
Silicon dioxide 7631-86-9
Quartz (SiO2) 14808-60-7
listed Special Hazard.

California Prop. 65

WARNING: This product can expose you to chemicals including ethylene oxide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

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

SECTION 16. OTHER INFORMATION

Further information
NFPA 704:

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

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):
SAFETY DATA SHEET

MasterEmaco S 211SP

Revision Date: 09/03/2020
SDS Number: 000000259901
Date of last issue: -
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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

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECL - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date: 09/03/2020

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE
<table>
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</tbody>
</table>

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