SAFETY DATA SHEET
Merkrete 710 Dustless Premium Plus G

1. Identification

Product identifier

Product name: Merkrete 710 Dustless Premium Plus G
Product number: 4303

Recommended use of the chemical and restrictions on use

Application: Ceramic Tile Adhesive
Uses advised against: No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Manufacturer: ParexUSA, Inc.
4125 E. La Palma Ave, Suite 250
Anaheim, CA 92807, USA
T: 1-800-226-2424
F: 1-714-774-2079

Emergency telephone number

Emergency telephone: CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards: Not Classified
Environmental hazards: Not Classified

Label elements

Pictogram

Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H350 May cause cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
**Merkrete 710 Dustless Premium Plus G**

**Precautionary statements**
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P206 Do not breathe dust.
- P261 Avoid breathing dust.
- P264 Wash contaminated 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.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of water.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 If exposed or concerned: Get medical advice/ attention.
- P310 Immediately call a poison center/ doctor.
- P312 Call a poison center/ doctor if you feel unwell.
- P314 Get medical advice/ attention if you feel unwell.
- P321 Specific treatment (see medical advice on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/ container in accordance with national regulations.

Contains
- Portland Cement, Quartz

**Other hazards**
This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Portland Cement</strong></td>
<td>30-60%</td>
</tr>
<tr>
<td>CAS number: 65997-15-1</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1A - H314</td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
<tr>
<td>Carc. 1B - H350</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quartz</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 14808-60-7</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Carc. 1A - H350</td>
<td></td>
</tr>
<tr>
<td>STOT RE 1 - H372</td>
<td></td>
</tr>
</tbody>
</table>
Merkrete 710 Dustless Premium Plus G

**Kaolin Clay**
CAS number: 1332-58-7

<table>
<thead>
<tr>
<th>Classification</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2A - H319</td>
<td></td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

**Composition comments**
The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

**4. First-aid measures**

**Description of first aid measures**

**General information**
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

**Inhalation**
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**
Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention.

**Skin Contact**
It is important to remove the substance from the skin immediately. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognized skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**
Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

**Protection of first aiders**
First aid personnel should wear appropriate protective equipment during any rescue.

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

**General information**
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**
A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.

**Ingestion**
May cause sensitization or allergic reactions in sensitive individuals. May be harmful if swallowed. May cause irritation. Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.

**Skin contact**
May cause skin sensitization or allergic reactions in sensitive individuals. Redness. Irritating to skin. Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.

**Eye contact**
Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards

None known.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid inhalation of dust and vapors. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling
Merkrete 710 Dustless Premium Plus G

Usage precautions
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. May cause cancer. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions
Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Portland Cement
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m³ respirable fraction A4

Quartz
Long-term exposure limit (8-hour TWA): OSHA 0.05 mg/m³ respirable dust
Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m³ respirable fraction A2

Kaolin Clay
Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ respirable fraction A4
Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.
A2 = Suspected Human Carcinogen.

Silicon Dioxide (CAS: 7631-86-9)
Immediate danger to life and health 3000 mg/m³

Portland Cement (CAS: 65997-15-1)
Immediate danger to life and health 5000 mg/m³

Quartz (CAS: 14808-60-7)
Immediate danger to life and health 25 mg/m³ 50 mg/m³
Merkrete 710 Dustless Premium Plus G

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
Avoid contact with eyes. Wear eye protection.

Hand protection
Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Respiratory protection
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Gas and combination filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls
Keep container tightly sealed when not in use. Avoid release to the environment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Powder.

Color
Grey.

Odor
Odorless.

Odor threshold
No information available.

pH
12-13 in water

Melting point
Not available.

Initial boiling point and range
No information available.

Flash point
No information available.

Evaporation rate
No information available.

Flammability (solid, gas)
No information available.

Upper/lower flammability or explosive limits
No information available.

Vapor pressure
No information available.

Vapor density
No information available.
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<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
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</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Other information</td>
<td>None.</td>
</tr>
<tr>
<td>Volatile organic compound</td>
<td>This product contains a maximum VOC content of 0.0 g/l.</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

**Reactivity**

There are no known reactivity hazards associated with this product.

**Stability**

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

**Possibility of hazardous reactions**

No potentially hazardous reactions known.

**Conditions to avoid**

There are no known conditions that are likely to result in a hazardous situation.

**Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

**Hazardous decomposition products**

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity - oral**

| Notes (oral LD₅₀) | Based on available data the classification criteria are not met. |

**Acute toxicity - dermal**

| Notes (dermal LD₅₀) | Based on available data the classification criteria are not met. |

**Acute toxicity - inhalation**

| Notes (inhalation LC₅₀) | Based on available data the classification criteria are not met. |

**Skin corrosion/irritation**

**Animal data**

Irritating.

**Serious eye damage/irritation**

Eye Dam. 1 - H318 Causes serious eye damage.

**Respiratory sensitization**

| Based on available data the classification criteria are not met. |

**Skin sensitization**

May cause skin sensitization or allergic reactions in sensitive individuals.
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Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Carcinogenicity
May cause cancer.

IARC carcinogenicity
Contains a substance/a group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.

Reproductive toxicity
Based on available data the classification criteria are not met.

Reproductive toxicity - fertility
Suspected of damaging fertility.

Reproductive toxicity - development
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure
STOT SE 3 - H335 May cause respiratory irritation.

Target organs
Respiratory system, lungs

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
Not relevant. Solid.

General information
May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.

Ingestion
May be harmful if swallowed. May cause sensitization or allergic reactions in sensitive individuals. May cause irritation.

Skin Contact
Exposure of skin to wet product may cause chemical burns. Symptoms of exposure may take several hours to manifest. May cause skin sensitization or allergic reactions in sensitive individuals. Redness. Irritating to skin.

Eye contact
Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. Exposure of eyes to wet product may cause chemical burns and blindness. Exposure to airborne dust can cause immediate or delayed irritation or inflammation.

Route of entry
Ingestion Inhalation Skin and/or eye contact

Target Organs
Respiratory system, lungs

Medical considerations
Skin disorders and allergies.

12. Ecological Information

Ecotoxicity
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity
Based on available data the classification criteria are not met.

Persistence and degradability
The degradability of the product is not known.
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Bioaccumulative potential

Bio-Accumulative Potential  No data available on bioaccumulation.

Partition coefficient  No information available.

Mobility in soil

Mobility  No data available.

Other adverse effects

Other adverse effects  None known.

13. Disposal considerations

Waste treatment methods

General information  The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods  Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General  The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number  Not applicable.

UN proper shipping name  Not applicable.

Transport hazard class(es)  No transport warning sign required.

Packing group  Not applicable.

Environmental hazards

Environmentally Hazardous Substance  No.

Special precautions for user  Not applicable.

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

15. Regulatory information

US Federal Regulations

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Merkrete 710 Dustless Premium Plus G

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
The following ingredients are listed or exempt:

Silicon Dioxide
Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:

Silicon Dioxide
Present.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
The following ingredients are listed or exempt:

Silicon Dioxide
Present.

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:

Portland Cement
Present.

Quartz
Present.

Silicon Dioxide
Present.
Merkrete 710 Dustless Premium Plus G

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:

Portland Cement
Present.
Quartz
Present.

Minnesota "Right To Know" List
The following ingredients are listed or exempt:

Portland Cement
Present.
Quartz
Present.
Silicon Dioxide
Present.

New Jersey "Right To Know" List
The following ingredients are listed or exempt:

Portland Cement
Present.
Quartz
Present.

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:

Portland Cement
Present.
Quartz
Present.
Silicon Dioxide
Present.

Inventories
US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

16. Other information

Training advice
Read and follow manufacturer's recommendations.

Revision comments
This is first issue.

Revision date
3/23/2018

SDS No.
4634
Merkrete 710 Dustless Premium Plus G

<table>
<thead>
<tr>
<th>Hazard statements in full</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H314 Causes severe skin burns and eye damage.</td>
<td>H315 Causes skin irritation.</td>
</tr>
<tr>
<td>H317 May cause an allergic skin reaction.</td>
<td>H318 Causes serious eye damage.</td>
</tr>
<tr>
<td>H319 Causes serious eye irritation.</td>
<td>H335 May cause respiratory irritation.</td>
</tr>
<tr>
<td>H350 May cause cancer.</td>
<td>H372 Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

| ACA HMIS Health rating.                                       | 1                                                                |
| ACA HMIS Flammability rating.                                 | 0                                                                |
| ACA HMIS Physical hazard rating.                              | 0                                                                |
| ACA HMIS Personal protection rating.                          | E                                                                |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.