CALCIUM HYDROXYAPATITE SAFETY DATA SHEET (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Calcium Hydroxyapatite
Synonyms: Calcium Hydroxylapatite
Hydroxylapatite

Information: Calcium Hydroxyapatite is a synthetically produced calcium phosphate mineral that is a pure form of natural bone, dentin, and enamel found in the human body. It is a white to off-white crystalline powder.

Manufacturer: Merz North America, Inc.
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Raleigh, NC 27615
Phone No.: 844-469-6379
Hazmat Service Emergency Number: 800-373-7542
International Shipments: +1-484-951-2432

2. HAZARD(S) IDENTIFICATION

This product is not considered to be hazardous per the Occupational Safety & Health Administration’s (OSHA’s) Hazard Communication Standard 29CFR1910.1200:

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Hydroxyapatite</td>
<td>1306-06-5</td>
</tr>
</tbody>
</table>

4. FIRST – AID MEASURES

Inhalation: Move to fresh air; consult a physician.
Oral Exposure: If swallowed, wash out mouth with water if conscious; consult a physician.
Skin Contact: Wash affected skin thoroughly with soap and water.
Eye Contact: Flush with copious amounts of water for at least 15 minutes; consult a physician.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water, Dry Chemical, Carbon Dioxide, or Appropriate Foam
Fire Fighting Protective Equipment: As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific Hazards: May emit hazardous fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment; avoid breathing dust.
Method for cleaning up: Use broom, shovel, or equivalent and minimize dust formation; store in closed container prior to disposal.

7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practices; keep container closed unless in use and avoid dust formation as much as possible.
Store product in dry, well-ventilated area.
8. **EXPOSURE CONTROL / PERSONAL PROTECTION**

Personal protective equipment: Nitrile gloves or equivalent; long sleeves and pants to minimize exposed skin; safety glasses or goggles; National Institute for Occupational Safety and Health (NIOSH) approved particulate respirator or equivalent for nuisance dust – N95 or greater protection.

Wash hands and any exposed skin after handling.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White solid or powder</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&gt;1,250°C (2,282°F)</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion Severity</td>
<td>(Kst) Value = 0 bar.m/s</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>≥2.7 g/cm³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. **STABILITY AND REACTIVITY**

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions

Conditions to Avoid: No data available

Incompatible Materials: Strong acids and strong oxidizers

Hazardous Decomposition Products: No data available

11. **TOXICOLOGICAL INFORMATION**

Health effects are not known or expected during normal use.

12. **ECOLOGICAL INFORMATION**

Ecological data is not available

13. **DISPOSAL CONSIDERATIONS**

Dispose of this product according to all local, state, and federal regulations

14. **TRANSPORT INFORMATION**

Non-hazardous for transport

15. **REGULATORY INFORMATION**

This material is listed on the Toxic Substances Control Act (TSCA) inventory.

Superfund Amendments and Reauthorization Act (SARA) 302, 313 Listed: No

SARA 311/312: No

Resource Conservation and Recovery Act (RCRA) Hazardous Waste: No

16. **OTHER INFORMATION**

Revision Date: 25 OCT 2016

The information contained in this SDS is to the best of Merz North America, Inc.’s knowledge and is believed to be accurate and reliable as of the revision date. However, no representation, warranty, or guarantee is implied or expressed regarding the accuracy, reliability, or completeness of this information. Information contained within this SDS is related to occupational exposure.