1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>SDS Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquasil®</td>
<td>578617</td>
</tr>
</tbody>
</table>

**Substance Identity**

Aquasil, Aquasil Ultra, Aquasil Ultra Xtra, Smart Wetting® Impression Material, Aquasil Ultra Cordless Tissue Managing Impression Material, Aquasil Ultimate - Tissue Managing Impression Material, Aquasil Ultra + Smart Wetting Impression Material

**Date of Last Revision**

05/09/16

**Manufacturer:**

DENTSPLY Milford

38 West Clarke Avenue
Milford DE 19963-1805
http://www.dentsply.com

**Emergency Telephone Number:**

(302) 422-4511
(8:00 AM – 4:30 PM Eastern Time)

**Product Use (for Canada)**

Dental Impression Material

2. Hazard(s) Identification

**WARNING**

CAUSES SKIN IRRITATION

WASH HANDS THOROUGHLY AFTER HANDLING
WEAR PROTECTIVE GLOVES
IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE / ATTENTION
TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>C.A.S. Number</th>
<th>Exposure Limits</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide - Crystalline</td>
<td>14464-46-1</td>
<td>0.05 mg/m³</td>
<td>&lt; than 30</td>
</tr>
<tr>
<td>Silicon Dioxide - Amorphous</td>
<td>68855-54-9</td>
<td>1.20 mg/m³</td>
<td>&lt; than 30</td>
</tr>
<tr>
<td>Hydrophobic Amorphous Fumed Silica</td>
<td>68909-20-6</td>
<td>10 mg/m³</td>
<td>&lt; than 10</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>10 mg/m³</td>
<td>&lt; than 10</td>
</tr>
</tbody>
</table>

**Colorant Information:** The base pastes may contain fluorescent organic dyes and/or ultramarine pigments and/or inorganic iron oxides. The base pastes may also contain a red pigment known as a Red 2B Toner or a Calcium salt of a beta oxynaphthoate. The Chemical structure of all Ultramarine pigments, regardless of color, is Sodium Aluminosilicate.

**Odorant Information:** This product contains Peppermint oil which may cause irritation to skin or mucosa or other allergic responses in susceptible persons.

4. First Aid Measures

<table>
<thead>
<tr>
<th>Routes of Exposure</th>
<th>First Aid Instructions</th>
<th>Immediate Medical Attention</th>
<th>Delayed Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Rinse opened eye for several minutes under running water. If symptoms persist consult physician</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin</td>
<td>Immediately wash with soap and water and rinse thoroughly</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Supply fresh air; consult physician if symptoms persist</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Ingestion</td>
<td>If symptoms persist consult physician</td>
<td>Not Applicable</td>
<td>Low order of toxicity is expected when large</td>
</tr>
</tbody>
</table>
5. Fire Fighting Measures

Flame Propagation or Burning Rate (for Solids): Not Applicable

Properties Contributing to Fire Intensity: Not Applicable

Flammability Classification: Not Applicable

Other: Not Applicable

Extinguishing Media: CO₂, extinguishing powder, foam carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam.

Extinguishing Media to Avoid: Water with full jet.

Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices.

Unusual Fire and Explosion Hazards: No dangerous decomposition products known. Product does not present an explosion hazard.

6. Accidental Release Measures

Containment Techniques: Material is a paste and as such will not flow.

Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and scoop up bulk material and place in a labeled plastic or metal container. Avoid gross skin contact to minimize the possibility of contact dermatitis to susceptible persons. Ensure adequate ventilation.

Evacuation Procedures: Not Applicable

Special Instructions: Not Applicable

Reporting Requirements: Not Applicable

7. Handling and Storage

Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages.

8. Exposure Control / Personal Protection

<table>
<thead>
<tr>
<th>Individual Protection Measures</th>
<th>Personal Protective Equipment for Normal Use</th>
<th>Personal Protective Equipment for Emergencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/Face</td>
<td>Safety Glasses</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin</td>
<td>The glove material has to be impermeable and resistant to the product.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Not Required</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Body Protection</td>
<td>Protective work clothing</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Occupational Exposure Limits</td>
<td>Not Applicable</td>
<td>Engineering Controls: Not Applicable</td>
</tr>
</tbody>
</table>

9. Physical and Chemical Characteristics

Appearance: Various colored pastes, may be high viscosity paste or runny. Catalyst is white to grey-colored. Odor: Peppermint odor.

Normal Physical State: Material is available in several viscosities. It varies from a very high viscosity liquid (Paste) to a more runny material.

Specific Gravity: Varies from 1.1 g/cm³ to 1.5 g/cm³

Solubility in Water: Not soluble

pH: Not Applicable

Vapor Pressure (mm Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Evaporation Rate (Butyl Acetate =1): N A

Flashpoint Method: Not Applicable

Flammable ( Explosive) Limits in Air (LEL: Not Applicable, UEL: Not Applicable)

Autoignition Temperature: Not Applicable

Product will not autoignite.

Other: Not Applicable

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid): Strong oxidizing materials.

Hazardous Products Produced During Decomposition: No dangerous decomposition products known if used according to Directions for Use.

Hazardous Polymerization: May Occur Not Occur

Conditions to Avoid: None known

Stability: Stable

Conditions to Avoid: None known

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data:

Product may irritate the skin and mucous membranes. The unpolymerized product may cause irritation to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: No sensitizing effects known.

Emergency Overview: Material may be mildly irritating to eyes.

<table>
<thead>
<tr>
<th>Routes of Exposure</th>
<th>Signs and Symptoms</th>
<th>Single, Repeated, or Lifetime Exposure</th>
<th>Severity (Mild, Moderate, Severe)</th>
<th>Acute and Chronic Health Effect(s)</th>
<th>Target Organ(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Material can cause irritation.</td>
<td>Single</td>
<td>Mild</td>
<td>Irritation and possible corneal damage</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin</td>
<td>Material may be an irritant</td>
<td>Single &amp; Repeated</td>
<td>Moderate</td>
<td>Irritation or possible allergic response.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Material is probably not harmful if swallowed</td>
<td>Not Applicable</td>
<td>Mild</td>
<td>Low order of toxicity is expected when large amounts of material are ingested.</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Acute toxicology study in rats LD₅₀ > 2,000 mg/kg.
12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.

13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

14. Transport Information

Regulated for Shipping: No. Not Regulated
DOT Shipping Name: Not Regulated
DOT Hazard Class: Not Applicable
UN Number: Not Applicable

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.

U.S. Federal Regulations: CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None
Section 302 Extremely Hazardous Substances (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.
U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.
International Regulations: Canadian Environmental Protection Act:
This product is a medical device and not subject to chemical notification requirements.
European Community Labeling: Not a dangerous preparation.
European Inventory of New and Existing Chemicals Substances (EINECS):
This product is a medical device and not subject to chemical notification requirements.
Other: Not Applicable

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex. All components are synthetically produced; none are derived from animal products. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship. The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.