

**DENTSPLY International**  
**DENTSPLY Caulk**  
**Material Safety Data Sheet**

**578617**

<b>1. Product and Company Identification</b>	
Product Name <b>Aquasil Ultra</b>	MSDS Code Number <b>578617</b>
Trade Name & Synonyms <b>Aquasil Ultra</b> <b>Aquasil Ultra Xtra</b> <b>Smart Wetting® Impression Material</b>	Date of Last Revision <b>07/22/08</b>
Chemical Name <b>Vinyl Polysiloxane</b>	Manufacturer <b>DENTSPLY Caulk</b>
C.A.S. Number <b>N. A.</b>	Address <b>38 West Clarke Avenue</b> <b>Milford DE 19963-1805</b> <b>http://www.caulk.com</b> <b>http://www.dentsply.com</b>
Grades or Minor Variant Identities <b>AQUASIL ULTRA MONOPHASE, AQUASIL ULTRA RIGID, AQUASIL ULTRA XLV, AQUASIL ULTRA LV, AQUASIL ULTRA HEAVY – Smart Wetting® Impression Material – Including AQUASIL ULTRA DECA™ Smart Wetting® Impression Material for Dynamic Mixing Machines and digit® Targeted Delivery Systems. AQUASIL ULTRA Xtra – Wash, Tray and DECA Tray.</b>	Information Telephone Number <b>(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)</b>
Product Use (for Canada) <b>Dental Impression Material</b>	Emergency Telephone Number <b>(302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)</b>

<b>2. Composition Of Ingredients</b>			
Hazardous Components	C.A.S. Number	Exposure Limits	%
Silicon Dioxide - Amorphous	7631-86-9	0.05 mg/m <sup>3</sup>	< than 30
Silicon Dioxide -Crystalline	14464-46-1	0.05 mg/m <sup>3</sup>	< than 30
Hydrophobic Amorphous Fumed Silica	68909-20-6	10 mg/m <sup>3</sup>	< than 10
Titanium Dioxide	13463-67-7	10 mg/m <sup>3</sup>	< than 5

**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 Aluminosulfosilicate.

<b>3. Hazard Identification</b>					
<b>Emergency Overview: Material may be mildly irritating to eyes.</b>					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Material can cause irritation.	Single	Moderate	Irritation and possible corneal damage	Not Applicable
Skin	Material may be an irritant	Single & Repeated	Moderate	Irritation or possible allergic response.	Not Applicable
Inhalation	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ingestion	Material is probably not harmful if swallowed	Not Applicable	Mild	Low order of toxicity is expected when large amounts of material are ingested. Acute toxicology study in rats LD <sub>50</sub> >2,000mg/kg.	Not Applicable
Other	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Medical Conditions Aggravated by Exposure Open sores and wounds of the skin.					
Carcinogenicity NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: No All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.					
Potential Environmental Effects Do not allow to enter sewers/ surface or ground water.					
NFPA Hazard Classification Ratings (Scale 0-4), Health = 0, Fire = 1, Reactivity = 0					

**DENTSPLY/International  
DENTSPLY/Caulk  
Material Safety Data Sheet**

**4. First Aid Measures**

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Rinse opened eye for several minutes under running water. If symptoms persist consult physician	Not Applicable	Not Applicable
Skin	Immediately wash with soap and water and rinse thoroughly	Not Applicable	Not Applicable
Inhalation	Supply fresh air, consult physician if symptoms persist	Not Applicable	Not Applicable
Ingestion	If symptoms persist consult physician	Not Applicable	Low order of toxicity is expected when large amounts of material are ingested. Acute toxicology study in rats LD <sub>50</sub> >2,000mg/kg.
Other	Not Applicable	Not Applicable	Not Applicable

Note to Physicians (Treating, Testing and Monitoring): Not Applicable

**5. Fire and Explosion Data**

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
Flame Propagation or Burning Rate (for Solids): Not Applicable	Properties Contributing to Fire Intensity: Not Applicable	Flammability Classification: Not Applicable	
Extinguishing Media: CO <sub>2</sub> , extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire-extinguishing methods suitable to surrounding areas.		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 available in several viscosities. It may be a high viscosity paste and as such will not flow. Or a runny paste.		
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**

Ventilation: None required during normal intended use of this product		Other Engineering Controls: Not Applicable
Routes of Entry	Personal Protective Equipment (PPE) for Normal Use	PPE for Emergencies
Eye/Face	Safety Glasses	Not Applicable
Skin	The glove material has to be impermeable and resistant to the product.	Not Applicable
Inhalation	Not Required	Not Applicable
Body Protection	Protective work clothing	Not Applicable
General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin. Do not eat, drink or smoke when using.		
Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable		
Other Protective Measures and Equipment: Not Applicable		

**9. Physical and Chemical Characteristics**

Appearance: Various colored pastes, may be high viscosity paste or runny. Catalyst is grey-colored.		Odor: Characteristic sweet ester odor.
Normal Physical State: Material is available in several viscosities. It varies from a Very High Viscosity Liquid (Paste) to a more runny material.		Melting Point: Not Applicable
Specific Gravity: Varies from 1.0 g/cm <sup>3</sup> to 1.5 g/cm <sup>3</sup> depending upon viscosity.	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): Not Applicable
Other: Not Applicable		

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DENTSPLY/Caulk  
Material Safety Data Sheet**

**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: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid: None known	
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	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.

**12. Ecological Information**

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class I (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	Packing Group: Not Applicable
Do Changes in Quantities, packaging, or shipment method change product classification? No	DOT Hazard Class: Not Applicable	UN Number: Not Applicable
DOT Labels Required (49CFR172.101): Not Applicable	Other: Not Applicable	

**15. Regulatory Information**

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 contains crystalline silica, a substance that is known to the State of California to cause cancer.  
The particles are contained in a paste and as such are not airborne particles of respirable size.  
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.