

## Caulk

1. Product and Company Identification	
Product Name <b>AQUASIL Impression Material</b>	MSDS Code Number 578899
Trade Name & Synonyms <b>AQUASIL Smart Wetting<sup>®</sup> Impression Material</b>	Date of Last Revision 09/25/06
Chemical Name <b>Vinyl Polysiloxane</b>	Manufacturer DENTSPLY/Caulk
C.A.S. Number N. A.	Address 38 West Clarke Avenue Milford DE 19963-1805 <a href="http://www.caulk.com">http://www.caulk.com</a>
Grades or Minor Variant Identities <b>AQUASIL MONOPHASE, AQUASIL RIGID, AQUASIL XLV, AQUASIL PUTTY, AQUASIL LV and AQUASIL DECA™ Monophase, AQUASIL DECA™ Heavy Material for Dynamic Mixing Machines.</b>	Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
Product Use (for Canada) <b>Dental Impression Material</b>	Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

## 2. Composition Of Ingredients

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
Calcium Sulfate	7778-18-9	10 mg/m <sup>3</sup>	< than 15
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 and/or 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.

## 3. Hazard Identification

Emergency Overview: Material may be mildly irritating to eyes.					
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	N. A.
Skin	Material may be an irritant	Single & Repeated	Moderate	Irritation or possible allergic response.	N. A.
Inhalation	N. A.	N. A.	N. A.	N. A.	N. A.
Ingestion	Material is probably not harmful if swallowed	N. A.	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.	N. A.
Other	N. A.	N. A.	N. A.	N. A.	N. A.
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					

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<b>4. First Aid Measures</b>			
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	N. A.	N. A.
Skin	Immediately wash with soap and water and rinse thoroughly	N. A.	N. A.
Inhalation	Supply fresh air, consult physician if symptoms persist	N. A.	
Ingestion	If symptoms persist consult physician	N. A.	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	N. A.	N. A.	N. A.
Note to Physicians (Treating, Testing and Monitoring) N. A.			

<b>5. Fire and Explosion Data</b>			
Flashpoint Method: N. A.	Flammable (Explosive) Limits in Air LEL: N. A. UEL: N. A.	Autoignition Temperature: N. A. Product will not autoignite.	Other: N. A.
Flame Propagation or Burning Rate (for Solids) N. A.	Properties Contributing to Fire Intensity: N. A.	Flammability Classification: N. A.	
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.			

<b>6. Accidental Release Measures</b>
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: N. A.
Special Instructions: N. A.
Reporting Requirements: N. A.

<b>7. Handling and Storage</b>
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.

<b>8. Exposure Control / Personal Protection</b>		
Ventilation: None required during normal intended use of this product	Other Engineering Controls: N. A.	
Routes of Entry	Personal Protective Equipment (PPE) for Normal Use	PPE for Emergencies
Eye/Face	Safety Glasses	N. A.
Skin	The glove material has to be impermeable and resistant to the product.	N. A.
Inhalation	Not Required	N. A.
Body Protection	Protective work clothing	N. A.
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: N. A.		
Other Protective Measures and Equipment: N. A.		

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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: N. A.
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: N. A.
Vapor Pressure (mm Hg): N. A.	Vapor Density (AIR=1) N. A.	Evaporation Rate (Butyl Acetate =1) N. A.
Other: N. A.		

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: N. A.
Do Changes in Quantities, packaging, or shipment method change product classification? No	DOT Hazard Class N. A.	UN Number: N. A.
DOT Labels Required (49CFR172.101): N/A	Other: N. A.	
IATA Shipping Name: Not Regulated	IATA Hazard Class: N/A	UN Number: N/A
IATA Hazard Labels Required: N/A		
IMDG Shipping Name: Not Regulated	IMDG Hazard Class: N/A	UN Number: N/A
IMDG Hazard Labels Required: N/A		

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: N. A.

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.