

# MATERIAL SAFETY DATA SHEET

## SECTION I – Product/Company Identification

**1.1 Product Trade Name:** AQUASIL MONOPHASE, AQUASIL RIGID, AQUASIL XLV, AQUASIL PUTTY, AQUASIL LV, AQUASIL DECA™ Monophase, AQUASIL DECA™ Heavy Smart Wetting® Impression Material

**1.2 Part (Item) Number:** 678000 – 678999 All Package Configurations

**1.3 Division Name:** DENTSPLY Caulk

**1.4 Address:** 38 West Clarke Avenue  
**City State Zip:** Milford DE 19963-0359  
**Internet Address:** <http://www.caulk.dentsply.com>

**1.5 Emergency Telephone Number:** (800) 424-9300 (Chemtrec)

**1.6 Telephone Number for Information:** (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)

**1.7 Date Prepared:** 1/7/00 **Dated Revised:** 12/12/02

## SECTION II - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS #</u>	<u>Percent</u>
Silicon Dioxide (Amorphous )	1.2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	7631-86-9	5 – 30 %
Silicon Dioxide (Crystalline)	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	14464-46-1	5 - 30 %
Calcium Sulfate	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	7778-18-9	less than 15%
Hydrophobic Amorphous Fumed Silica	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	68909-20-6	less than 10 %
Titanium Dioxide	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	13463-67-7	less than 5 %

### Non-Hazardous Components

Vinyl dimethyl polydimethylsiloxane	N. E.	N. E.	68083-19-2	30 – 60 %
Organic Plasticizer	N. E.	N. E.	68515-40-2	less than 5 %
Polymethylhydrogen siloxane	N. E.	N. E.	68037-59-2	less than 10 %
Phenolic Surfactant	N. E.	N. E.	9016-45-9	less than 5 %
Fluorescent organic dye	N. E.	N. E.	39277-28-6	less than 2 %
Ultramarine pigments	N. E.	N. E.	12769-96-9	less than 2 %
Organo Platinum complex	N. E.	N. E.	68748-92-2	less than 5 %

**Other Information:** The Chemical structure of all Ultramarine pigments, regardless of color, is Sodium Aluminosulfosilicate, also contained is a red pigment known as a Red 2B Toner or a Calcium salt of a beta oxynaphthoate.  
Other colorants are inorganic iron oxides.

## SECTION III - Physical/Chemical Characteristics

<b>3.1 Boiling point:</b>	>200°C	<b>3.6 Specific Gravity:</b>	Varies from 1.0 g/cm <sup>3</sup> to 1.5 g/cm <sup>3</sup>
<b>3.2 Vapor pressure:</b>	N. A.		depending upon viscosity.
<b>3.3 Vapor density:</b>	N. A.	<b>3.7 Melting Point:</b>	N. E.
<b>3.4 Solubility in water:</b>	Not Soluble	<b>3.8 Evaporation rate:</b>	<1

**3.5 Appearance and odor:** Various colored pastes with faint sweet odor.

## SECTION IV - Fire and Explosion Hazard Data

**4.1 Flash point (method used):** > 415°F (Pensky Martin CC ASTM 093)

**4.2 Flammability (explosive limits):** LEL: N.E. UEL: N.E.

**4.3 Extinguishing media:** Sand, foam, carbon dioxide, or dry chemical.

**4.4 Special fire fighting procedures:** Fire fighter should wear full protective clothing including a self-contained breathing apparatus.

**4.5 Unusual fire and explosion hazards:** During a fire, irritating gasses from the decomposition of the silicone resins may be present.

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## SECTION V – Reactivity Data

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<b>5.1 Stability:</b>	<b>Unstable:</b>	<b>Stable:</b> X
<b>5.2 Conditions to avoid (stability):</b>	Heat greater than 60°C (140°F)	
<b>5.3 Incompatibility (materials to avoid):</b>	Condensation silicones, tin and sulfur, amines and peroxides.	
<b>5.4 Hazardous decomposition or byproducts:</b>	N.E.	
<b>5.5 Hazardous polymerization:</b>	<b>May occur:</b>	<b>Will not occur:</b> X
<b>5.6 Conditions to avoid (polymerization):</b>	Extreme heat.	

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## SECTION VI - Health Hazard Data

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<b>6.1 Route(s) of entry:</b>	<b>Inhalation?:</b> No <b>Skin?:</b> Yes <b>Ingestion?:</b> Yes
<b>6.2 Health hazards (acute and chronic):</b>	Contact with eyes and skin may cause irritation. In susceptible persons, skin reactions may occur. This is short term and should go away after washing with soap and water.
<b>6.3 Carcinogenicity:</b>	<b>NTP?:</b> Not listed <b>IARC monographs?:</b> Not listed <b>OSHA Regulated?:</b> 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.
<b>6.4 Signs and symptoms of exposure:</b>	Product may irritate the eyes and skin. <b>Eye contact:</b> irritation and possible corneal damage. <b>Skin contact:</b> irritation or possible allergic response. Reddish rashes may be seen on the skin. <b>Ingestion:</b> 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.
<b>6.5 Medical conditions generally aggravated by exposure:</b>	Possible skin rashes.
<b>6.6 Emergency first aid procedures:</b>	In case of eye contact, flush with flowing water for 15 minutes and get medical attention. <b>Skin:</b> Flush with flowing water for 15 minutes, then wash area with mild soap and water. Call physician.

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## SECTION VII - Precautions for Safe Handling and Use

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<b>7.1 Steps to be taken in case material is released or spilled:</b>	Spread vermiculite on paste to absorb any resin. Scoop up and place in an appropriately marked container.
<b>7.2 Waste disposal methods:</b>	Dispose of in accordance with Federal, State and Local regulations.
<b>7.3 Precautions to be taken in handling and storage:</b>	Store away from food and beverages. Store away from extreme heat.
<b>7.4 Other precautions:</b>	Avoid contact with skin. Observe normal warehouse handling procedures. Handling of this product should be by trained dental healthcare professionals only.

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## SECTION VIII – Control Measures / Personal Protection

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<b>8.1 Respiratory protection:</b>	None required during normal use of this product.
<b>8.2 Ventilation:</b>	Local exhaust recommended.
<b>8.3 Protective gloves:</b>	Vinyl gloves. Latex or Rubber gloves may inhibit set.
<b>8.4 Eye protection:</b>	Protective goggles.
<b>8.5 Other protective clothing or equipment:</b>	Apron.
<b>8.6 Work/Hygienic practices:</b>	Observe normal care when working with chemicals. Avoid eye and skin contact, inhalation and ingestion. Do not eat, drink or smoke when using.

NFPA HAZARD CLASSIFICATIONS	
Health	0
Flammability	1
Reactivity	0
Specific Hazard	N. A.

NFPA - National Fire Protection Association  
N.A. - Not Applicable  
N.E. - Not Established

578899 (R-12-12-02)