

304386 Part# 990214  
ADHESIVE,BONDING,CONCRETE,QT  
4818000 QUIKRETE COMPANY  
Buyer: Charles H. Aubuchon



## Material Safety Data Sheet [OSHA 29 CFR 1910.1200]

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MSDS CC

### SECTION I: PRODUCT IDENTIFICATION

**QUIKRETE® Product Name**  
CONCRETE BONDING ADHESIVE

**Code #**  
9902

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	PEL (OSHA) Mg/m <sup>3</sup>	TLV (ACGIH) mg/m <sup>3</sup>
Vinyl Acetate Ethylene Co-polymer	Not Hazardous		
Vinyl Alcohol Polymer	Not Hazardous		

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

<b>Appearance:</b>	Milky white liquid	<b>Specific Gravity:</b>	1.0 to 1.2
<b>Melting Point:</b>	32°F (0°C)	<b>Boiling Point:</b>	212°F (100°C)
<b>Vapor Pressure:</b>	17 mm Hg @ 68°F (20°C)	<b>Vapor Density:</b>	<1(water)
<b>Evaporation Rate:</b>	<1(water)	<b>Odor:</b>	vinyl acetate odor
<b>Solubility in Water:</b> Water miscible. Dilution with water generally will lower dispersion stability.			

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedure:** When polymer burns, water, carbon dioxide, carbon monoxide and smoke are produced. Pyrolysis products may include such materials as acetic acid, acrolein or acetaldehyde. Masks to remove smoke and organic vapor from respirable air are recommended for use when fighting fires involving vinyl acetate polymers and copolymers.

There are no unusual fire or explosion hazards.

THE QUIKRETE COMPANIES



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**SECTION V - REACTIVITY DATA**

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Products are stable in most environments. Coagulation may occur following freezing, thawing or boiling.

Products will react violently with any water sensitive material such as sulfuric acid or alkali materials such as sodium or metal hydrides.

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**SECTION VI - HEALTH HAZARD DATA**

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**Route(s) of Entry:** Inhalation, Skin, Ingestion

**Health Hazards (Acute and Chronic):**

**Eye Contact:** Direct contact with material can cause slight irritation.

**Skin Contact:** Prolonged or repeated skin contact can cause slight irritation.

**First Aid:**

**Eye Contact:** If splashed in the eye, flush with large quantities of water for at least 15 min. Consult a physician if irritation persists.

**Skin Contact:** Wash the skin with soap and water. Consult a physician if irritation persists.

**Ingestion:** Ingested amounts are not anticipated to produce adverse health effects, but should be removed from the stomach by inducing vomiting or aspiration. Call a physician.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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Rubber protective gloves are recommended. Use safety goggles when splash potential exists.

If material is released or spilled, dam up to limit spreading. Mop up or absorb on inert material and place in containers. If spill occurs in enclosed area, ventilate.

**Note:** Spilled emulsion is very slippery. Use care to avoid falls. Latex will leave a film on drying. Remove saturated clothing and wash contacted skin areas with soap and water.

**Disposal procedure:** Coagulate the emulsion by stepwise addition of ferric chloride and lime. Remove clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local state, and federal regulations.

1.  $\omega_0$

$\omega_0 = \sqrt{\frac{2\pi}{L}} = \sqrt{\frac{2\pi}{0.025}} = 1570 \text{ rad/s}$

2.  $\omega_0 \tau_0$

$\omega_0 \tau_0 = 1570 \times 0.001 = 1.57 \text{ rad}$

3.  $\omega_0 \tau_0^2$

$\omega_0 \tau_0^2 = 1570^2 \times 0.001^2 = 2.46 \times 10^{-3} \text{ rad}^2$

4.  $\omega_0 \tau_0^3$  (approx. 0.001 rad)  $\omega_0 \tau_0^3 = 1570^3 \times 0.001^3 = 3.9 \times 10^{-6} \text{ rad}^3$

5.  $\omega_0 \tau_0^4$  (approx. 0.0001 rad)  $\omega_0 \tau_0^4 = 1570^4 \times 0.001^4 = 6.2 \times 10^{-9} \text{ rad}^4$

6.  $\omega_0 \tau_0^5$

$\omega_0 \tau_0^5 = 1570^5 \times 0.001^5 = 1.0 \times 10^{-11} \text{ rad}^5$

7.  $\omega_0 \tau_0^6$  (approx. 0.00001 rad)  $\omega_0 \tau_0^6 = 1.57 \times 10^{-14} \text{ rad}^6$

8.  $\omega_0 \tau_0^7$

$\omega_0 \tau_0^7 = 1570^7 \times 0.001^7 = 2.4 \times 10^{-17} \text{ rad}^7$

9.  $\omega_0 \tau_0^8$

$\omega_0 \tau_0^8 = 1570^8 \times 0.001^8 = 3.9 \times 10^{-20} \text{ rad}^8$

10.  $\omega_0 \tau_0^9$

$\omega_0 \tau_0^9 = 1570^9 \times 0.001^9 = 6.2 \times 10^{-23} \text{ rad}^9$

11.  $\omega_0 \tau_0^{10}$

$\omega_0 \tau_0^{10} = 1570^{10} \times 0.001^{10} = 1.0 \times 10^{-26} \text{ rad}^{10}$

12.  $\omega_0 \tau_0^{11}$

$\omega_0 \tau_0^{11} = 1570^{11} \times 0.001^{11} = 1.57 \times 10^{-29} \text{ rad}^{11}$

13.  $\omega_0 \tau_0^{12}$

$\omega_0 \tau_0^{12} = 1570^{12} \times 0.001^{12} = 2.4 \times 10^{-32} \text{ rad}^{12}$

14.  $\omega_0 \tau_0^{13}$

$\omega_0 \tau_0^{13} = 1570^{13} \times 0.001^{13} = 3.9 \times 10^{-35} \text{ rad}^{13}$

15.  $\omega_0 \tau_0^{14}$

$\omega_0 \tau_0^{14} = 1570^{14} \times 0.001^{14} = 6.2 \times 10^{-38} \text{ rad}^{14}$

16.  $\omega_0 \tau_0^{15}$

$\omega_0 \tau_0^{15} = 1570^{15} \times 0.001^{15} = 1.0 \times 10^{-41} \text{ rad}^{15}$

17.  $\omega_0 \tau_0^{16}$

$\omega_0 \tau_0^{16} = 1570^{16} \times 0.001^{16} = 1.57 \times 10^{-44} \text{ rad}^{16}$

18.  $\omega_0 \tau_0^{17}$

$\omega_0 \tau_0^{17} = 1570^{17} \times 0.001^{17} = 2.4 \times 10^{-47} \text{ rad}^{17}$

19.  $\omega_0 \tau_0^{18}$

$\omega_0 \tau_0^{18} = 1570^{18} \times 0.001^{18} = 3.9 \times 10^{-50} \text{ rad}^{18}$

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**SECTION VIII - CONTROL MEASURES**

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Normal cleanliness should be observed. Store in a cold place, avoid freezing, minimize contact with air to prevent inoculation with microorganisms which can cause decomposition and moldy overgrowth.

If headspace ventilation is required, use humidified air to reduce skin formation on the emulsion surface.

**Regulatory Concerns:** The products are not restricted articles according to Department of Transportation and Internal Air Transport regulations.

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**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein.

