Material Safety Data Sheet  VERSACRYL ACRYLIC POLYMER  Page 1 of 5

Section I - Product and Company Identification

Product Name: VERSACRYL ACRYLIC POLYMER  
Chemical Name: N/A  
Family: Acrylic Polymer  
Product Use: Dental Polymer  
Product #: 1014005, 1014006, 1014020, 1014021, 1014022, 1014023  
Manufacturer: KEYSTONE INDUSTRIES  
616 Hollywood Av, Cherry Hill, NJ 08002  
Emergency Phone Numbers: (800) 535-5053  
Information Contacts: (856) 663-4700

Section II - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS Numbers</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure Limits</th>
<th>Carcinogen %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibenzoyl Peroxide</td>
<td>94-36-0</td>
<td>202-327-6</td>
<td>Benzoyl Peroxide</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Rayon Fiber</td>
<td>61788-77-0</td>
<td>N/E</td>
<td>Rayon</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Hazard Symbols: Xi  
Risk Phrases: R36/37/38  
Safety Phrases: S18, S22, S24/25, S38

Section III - Hazards Identification

EMERGENCY OVERVIEW
This information is based on findings from related or similar materials.
- May cause allergic skin reaction.
- May cause eye irritation.
- Dust may cause irritation of the nose, throat, and lungs.
- This product may contain particulates, not otherwise classified (Nuisance Dust).

Potential Health Effects, Signs and Symptoms of Exposure:
Primary Route of Entry  
Eyes or skin (No absorption); inhalation of dust.
Eye  
Higher concentration can irritate eyes. May cause eye irritation or damage.
Skin  
Repeated or prolonged exposure may cause allergic skin rashes.
Ingestion  
Higher concentration can irritate respiratory system.
Inhalation  
Possible temporary discomfort due to inhalation of dust concentration above the permissible exposure limit. Dust may cause irritation of the nose, throat, and lungs.
Sub-Chronic Effects  
Effects of Acute and Chronic Over Exposure: It is not known to cause significant health problems. It is considered an inert or nuisance dust. Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

NOTE: Refer to Section 11, Toxicological Information for Details

Section IV - First Aid Measures

First Aid for Eye  
Flush with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if symptoms persist.
First Aid for Skin  
Wash thoroughly with soap and water. Obtain medical aid if discomfort persists.
First Aid for Inhalation  
In case of exposure to a high concentration of polymer dust, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.
First Aid for Ingestion  
Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If
conscious and alert, rinse mouth and drink 2 to 4 cupfuls of milk or water.

### Section V - Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flash Point (^{°F/°C})</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>572(^{°F}/304^{°C}) (Tag Closed Cup)</td>
<td>LEL: 20 g/m(^3) (dust cloud) UEL: N.A.</td>
<td>N/E</td>
</tr>
</tbody>
</table>

**Method:**
- **Extinguishing Media:** Water spray, water foam, carbon dioxide, dry chemical.
- **Fire Fighting Instructions:** Avoid extinguishing methods that generate dust clouds. Water streams can disperse dust into air, producing a fire hazard and possible explosion hazard. Fire-fighters should wear self-contained breathing apparatus.
- **Unusual Hazards:** Polymer dust is combustible but not easily ignited. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

### Section VI - Accidental Release Measures

**Spill or Release Procedures**
Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills.

### Section VII - Handling and Storage

**Handling**
Observe precautions found on the label. Wash face and hands thoroughly with soap and water after handling and before eating, drinking or smoking. Avoid prolonged or repeated contact with skin. Avoid contamination. Use only with adequate ventilation.

**Storage**
Store in cool, dry place away from heat, sparks, flame and direct sunlight. Close container after each use. Ground all metal containers when transferring. Use explosion-proof equipment. Store away from combustibles and incompatible materials.

**Explosion Hazard**
Polymer dust is combustible, explosive limits of the polymer particles suspended in air are approximately those of coal dust.

### Section VIII - Exposure Controls / Personal Protective Equipment

**Engineering Controls**
Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated. Use explosion-proof equipment. Provide ventilation if necessary to control exposure levels below airborne exposure limits.

**Personal Protective Equipment**

**General**
Dust collectors are recommended for handling powder in bulk. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers.

**Eye/ Face Protection**
Use safety glasses and have eye flushing equipment immediately available.

**Skin Protection**
Minimize contamination following good industrial practice. Although wearing gloves is an option, wearing nitrile, neoprene, pvc, latex or other impermeable gloves is recommended.

**Respiratory Protection**
A NIOSH/MSHA approved air purifying respirator with a minimum rating of N95 may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or 1910.135.
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**Section IX - Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor &amp; Odor Threshold</th>
<th>pH</th>
<th>Specific Gravity</th>
<th>Viscosity</th>
<th>% Volatile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine, white/pink powder w/ possibility of fine red fibers</td>
<td>Faint odor in bulk.</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point/Freezing Point</th>
<th>Decomposition Temperature</th>
<th>Octanol/Water Partitioning Coefficient</th>
<th>Vapor Pressure:</th>
<th>Vapor Density</th>
<th>Evaporation Rate</th>
<th>Ignition</th>
<th>Solubility In Water (20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>392°F/200ºC</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>580°F/304ºC (Tag Closed Cup)</td>
<td>LEL: 20 g/m³ (dust cloud)</td>
<td>UEL: N.A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/E</td>
</tr>
</tbody>
</table>

**Section X - Stability and Reactivity**

**Stability:**
- Stable

**Incompatibility (Materials to Avoid):**
- Strong oxidizing agents

**Hazardous Decomposition Products:**
- Methyl methacrylate monomers and Carbon Dioxide

**Hazardous Polymerization:**
- will not occur

**Conditions to Avoid:**
- Heating above 200°F/392°F

**Section XI - Toxicological Information**

<table>
<thead>
<tr>
<th>Acute Oral Toxicity</th>
<th>Acute Dermal Toxicity</th>
<th>Acute Inhalation Toxicity</th>
<th>Irritation - skin</th>
<th>Irritation - Eye</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>mild</td>
<td>mild</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>Mutagenicity</th>
<th>Sub-chronic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Section XII - Ecological Information**

**Ecotoxicological Information**

<table>
<thead>
<tr>
<th>Acute Toxicity to Fish</th>
<th>Acute Toxicity to Invertebrates</th>
<th>Acute Toxicity to Algae</th>
<th>Bioconcentration</th>
<th>Toxicity to Sewage Bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

**Chemical Fate Information**

<table>
<thead>
<tr>
<th>Biodegradability</th>
<th>Chemical Oxygen Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

**Section XIII - Disposal Considerations**

May be disposed of in a landfill or incinerated. Follow Federal, State and Local regulations for disposal.

**Section XIV - Transport Information**

**DOT (49 CFR 172)**

<table>
<thead>
<tr>
<th>Proper Shipping Name:</th>
<th>Non-Regulated Material</th>
</tr>
</thead>
</table>

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Identification Number: N/A
Marine Pollutant: No
Special Provisions: N/A
Emergency Response Guidebook (ERG) #: N/A
IATA (DGR): Non-Regulated Material
Class or Division: N/A
UN or ID Number: N/A
Packaging Instructions:
Emergency Response Guidance (ICAO)#: N/A
IMO (IMDG): Non-Regulated Material
Class or Division: N/A
UN or ID Number: N/A
Special Provisions & Stowage/Segregation: None
Emergency Schedule (EmS)#:
Other Information: Flash point > 100ºC

Section XV - Regulatory Information

US Federal Regulations
Clean Air Act: HAP/ODS
This product contains the following hazardous air pollutants (HAP's) or ozone depleting substances (ODS's), as defined by the U. S. Clean Air Act:
  • NONE

Clean Water Act: Priority Pollutant
This product contains the following chemicals listed under the U.S. Clean Water Act Priority Pollutant List:
  • NONE

FDA: Food Packaging Status
This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.

Occupational Safety and Health Act
This product is not considered a hazardous chemical under the OSHA Hazard Communication Standard.

RCRA
This product contains no chemicals considered to be hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 302
This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances.

SARA Title III: Section 304
This product contains no chemicals regulated under Sec. 304 as extremely hazardous chemicals for emergency release notification (“CERCLA” List).

SARA Title III: Section 311-312:
This product does not contain hazardous substances under the OSHA Hazard Communication Standard, and is not regulated under Section 311-312 (40 CFR 370).

SARA Title III: Section 313:
This product contains the following chemicals outlined in SARA Title III: Section 313:
  • Benzoyl Peroxide CAS #94-36-0.

TSCA Section 8(b): Inventory:
This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

State Regulations
CA Right-to-Know Law: Benzoyl Peroxide CAS #94-36-0
MA Right-to-Know Law: Benzoyl Peroxide CAS #94-36-0
NJ Right-to-Know Law: Benzoyl Peroxide CAS #94-36-0
PA Right-to-Know Law: Benzoyl Peroxide CAS #94-36-0

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<table>
<thead>
<tr>
<th>FL Right-to-Know Law:</th>
<th>Benzoyl Peroxide CAS #94-36-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>MN Right-to-Know Law:</td>
<td>Benzoyl Peroxide CAS #94-36-0</td>
</tr>
</tbody>
</table>

International Regulations

<table>
<thead>
<tr>
<th>CDSL: Canadian Inventory (on Canadian Transitional List)</th>
<th>Benzoyl Peroxide CAS #94-36-0 is on the DSL list. WHMIS = C, D2B, B4</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: European Inventory:</td>
<td>Versacryl Acrylic Polymer:</td>
</tr>
<tr>
<td></td>
<td>• HAZARD SYMBOLS: Xi: Irritant</td>
</tr>
<tr>
<td></td>
<td>• RISK PHRASES: R36/37/38: Irritating to eyes, respiratory system and skin</td>
</tr>
<tr>
<td></td>
<td>• SAFETY PHRASES: S18: Handle and open container with care, S22: do not breath dust, S24/25: avoid contact with skin and eyes, S38: in case of insufficient ventilation, wear suitable respiratory equipment.</td>
</tr>
</tbody>
</table>

Section XVI - Other Information

Hazard Rating System (Pictograms)

<table>
<thead>
<tr>
<th>NFPA:</th>
<th>HMIS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health 1</td>
<td>Health 1</td>
</tr>
<tr>
<td>Reactivity D</td>
<td>Reactivity 1</td>
</tr>
<tr>
<td>Flammability 1</td>
<td>Flammability 1</td>
</tr>
</tbody>
</table>

* - Respiratory protection may be necessary depending on conditions of use. Refer to Section VIII of this MSDS for respiratory protection guidelines.

OSHA PEL for nuisance dust: 15 mg/m³ (total dust)
ACGIH PEL for nuisance dust: 5 mg/m³ (respirable dust)
ACGIH PEL for nuisance dust: 10 mg/m³

Revised Sections since Last Version:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/31/2003</td>
<td>Initial Issue</td>
</tr>
<tr>
<td>11/02/2006</td>
<td>Added part numbers</td>
</tr>
<tr>
<td>02/05/2008</td>
<td>Added part numbers</td>
</tr>
<tr>
<td>09/08/2011</td>
<td>Added Rayon Fibers to Section II. Appearance in Section IX to include possibility of fine red fibers.</td>
</tr>
</tbody>
</table>

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