



**MATERIAL SAFETY DATA SHEET**

(Revision: 07/01/2014)

<p><b>1. Identification of the Substance/Preparation and of the Company/Undertaking.</b></p> <ul style="list-style-type: none"> <li>Product Type: Additive to increase hardness of Gypsum used by dental laboratory.</li> <li>Trade Name: <b>Gypsum Hardener</b></li> <li>Company: <b>Whip Mix Corporation</b>  <b>361 Farmington Ave.</b>  <b>Louisville, Kentucky, USA 40209</b>  <b>Emergency Telephone Number: (502)-637-1451</b>  <b>Fax Number: (502) 634-4512</b></li> </ul> <p><b>Transportation</b> <i>CHEMTREC 1(800) 424-9300 (U.S. and Canada)</i>  <b>Emergencies:</b> <i>International Calls: 1- 703-527-3887 (Collect calls accepted)</i></p>																								
<p><b>2. Hazard Identification.</b></p> <ul style="list-style-type: none"> <li>Should not be a hazard under normal use.</li> <li>Personal protective equipment: none required during normal laboratory use.</li> <li>Prevent inhalation exposure to excessive dust (if mixture dries out). May result in lung damage.</li> <li>Eye contact: Can cause transient irritation</li> </ul>																								
<p><b>3. Composition/Information on Ingredients.</b></p> <table border="1"> <thead> <tr> <th>Substance</th> <th>Concentration, %</th> <th>CAS</th> <th>R</th> <th>Symbol</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>Colloidal Silica (amorphous)</td> <td>10 – 20%</td> <td>112926-00-8</td> <td>None</td> <td></td> <td>None</td> </tr> <tr> <td>Ethyl Alcohol</td> <td>4%</td> <td>64-17-5</td> <td>R11</td> <td></td> <td>S2+, S7+, S16</td> </tr> </tbody> </table>							Substance	Concentration, %	CAS	R	Symbol	S	Colloidal Silica (amorphous)	10 – 20%	112926-00-8	None		None	Ethyl Alcohol	4%	64-17-5	R11		S2+, S7+, S16
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<p><b>4. First-Aid Measures.</b></p> <ul style="list-style-type: none"> <li>This product has no known acute toxic effects which would require emergency first-aid measures.</li> <li>For eye contact, rinse with water and call a physician, if irritation persists.</li> </ul>																								
<p><b>5. Fire-Fighting Measures.</b></p> <ul style="list-style-type: none"> <li>Unusual fire and explosion hazard: Contact with reactive metals (e.g.: aluminum) or alkaline materials may result in the generation of flammable hydrogen gas or toxic fumes.</li> </ul>																								
<p><b>6. Accidental Release Measures.</b></p> <ul style="list-style-type: none"> <li>Do not allow liquid to dry. Cleanup with absorbent paper towels.</li> </ul>																								
<p><b>7. Handling and Storage.</b>            Handling: No special treatment required.            Storage: Keep container closed.</p>																								
<p><b>8. Exposure Controls/Personal Protection.</b></p> <table border="1"> <thead> <tr> <th></th> <th><u>OSHA, PEL</u></th> <th><u>ACGIH, TLV, 2014</u></th> </tr> </thead> <tbody> <tr> <td>Amorphous Silica</td> <td>*</td> <td>Withdrawn</td> </tr> <tr> <td>Ethyl Alcohol</td> <td>1,000 ppm</td> <td>1,000 ppm</td> </tr> </tbody> </table> <p>*Exposure limit to dried dust: 6 mg/m<sup>3</sup> as 8 hr TWA.</p>								<u>OSHA, PEL</u>	<u>ACGIH, TLV, 2014</u>	Amorphous Silica	*	Withdrawn	Ethyl Alcohol	1,000 ppm	1,000 ppm									
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<b>9. Physical and Chemical Properties.</b> <ul style="list-style-type: none"> <li>• Translucent odorless liquid</li> <li>Density 10.0 -10.3 lbs/gal</li> <li>Solubility in water Dispersible</li> <li>Specific gravity 1.0 -1.2 @ 77°F</li> <li>pH 2.5 -3.0</li> <li>Viscosity Max 6.0 cps @ 77°F</li> <li>Boiling point 212°F @ 760 mm Hg</li> <li>Flash point None</li> <li>• No dangerous reactions are known to occur with correct handling and storage.</li> </ul>	
<b>10. Stability and Reactivity.</b> <ul style="list-style-type: none"> <li>• Basically stable. Avoid contact with aluminum or alkaline materials.</li> </ul>	
<b>11. Toxicological Information.</b> <ul style="list-style-type: none"> <li>• Acute oral toxicity (albino rats): LD<sub>50</sub> = Greater than 34,000 mg/kg</li> <li>• Acute dermal toxicity (albino rabbits): LD<sub>50</sub> = Greater than 10,000 mg/kg</li> <li>• Primary skin irritation test (albino rabbits): Skin irritation index draize rating: 0.125/8.0 minimally irritating.</li> <li>• Primary eye irritation test (albino rabbits): eye irritation index draize rating: 4.0/10.0 minimally irritating.</li> <li>• Inhalation of excessive dust (if the mixture dries out) may result in lung damage.</li> <li>• Carcinogenicity: Not listed as carcinogen by OSHA, NTP or IARC</li> </ul>	
<b>12. Ecological Data.</b> <ul style="list-style-type: none"> <li>• No ecotoxicological studies are available. See CERCLA section 14, if released into the environment.</li> </ul>	
<b>13. Disposal Considerations.</b> <ul style="list-style-type: none"> <li>• Waste is not hazardous as defined by RCRA (40CFR 2G1)</li> <li>• No special treatment required.</li> </ul>	
<b>14. Transport Information.</b> <ul style="list-style-type: none"> <li>• No special transport requirements. Product is not regulated during transportation.</li> </ul>	
<b>15. Regulatory Information.</b> <ul style="list-style-type: none"> <li>• OSHA Hazard Communications Standard, 29 CFR 1810.1200: None of the ingredients are hazardous.</li> <li>• RCRA: This material is not defined as hazardous water, per 40 CFR 261.</li> <li>• TSCA: These products contain materials listed in the TSCA inventory and is not otherwise regulated by TSCA Sec. 4, 5, 6, 7 or 12.</li> <li>• CERCLA: Materials not reportable under CERCLA. Local requirements may vary.</li> <li>• SARA: 311/312 hazard categories - immediate and delayed health, 313 reportable ingredients - none Does not contain any chemicals which require warning.</li> </ul>	
<b>16. Other Information.</b> <ul style="list-style-type: none"> <li>• HMIS Rating: Health 1 Flammability 0 Reactivity 2 Other 0 <i>Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum</i></li> </ul>	
Prepared By: Donna Ringo, CIH	Translated By:
Date: 7/1/2014	Date:

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