1. **Identification of the Substance/Preparation and of the Company/Undertaking.**
   - **Product Type:** Additive to increase hardness of Gypsum used by dental laboratory.
   - **Trade Name:** Gypsum Hardener
   - **Company:** Whip Mix Corporation  
     361 Farmington Ave.  
     Louisville, Kentucky, USA 40209  
     *Emergency Telephone Number:* (502)-637-1451  
     *Fax Number:* (502) 634-4512

   Transportation  CHEMTREC (800) 424-9300 (U.S. and Canada)  
   Emergencies:  International Calls: 1- 703-527-3887 (Collect calls accepted)

2. **Hazard Identification.**
   - Should not be a hazard under normal use.
   - Personal protective equipment: none required during normal laboratory use.
   - Prevent inhalation exposure to excessive dust (if mixture dries out). May result in lung damage.
   - Eye contact: Can cause transient irritation

3. **Composition/Information on Ingredients.**

<table>
<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</td>
<td>10 – 20%</td>
<td>112926-00-8</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>(amorphous)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>4%</td>
<td>64-17-5</td>
<td>R11</td>
<td>S2+, S7+, S16</td>
<td></td>
</tr>
</tbody>
</table>

4. **First-Aid Measures.**
   - This product has no known acute toxic effects which would require emergency first-aid measures.
   - For eye contact, rinse with water and call a physician, if irritation persists.

5. **Fire-Fighting Measures.**
   - 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.

6. **Accidental Release Measures.**
   - Do not allow liquid to dry. Cleanup with absorbent paper towels.

7. **Handling and Storage.**
   - Handling: No special treatment required.
   - Storage: Keep container closed.

8. **Exposure Controls/Personal Protection.**

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA, PEL</th>
<th>ACGIH, TLV, 2014</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Withdrawn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>

   *Exposure limit to dried dust: 6 mg/m³ as 8 hr TWA.
   • Translucent odorless liquid
     Density 10.0 -10.3 lbs/gal
     Solubility in water Dispersible
     Specific gravity 1.0 -1.2 @ 77°F
     pH 2.5 -3.0
     Viscosity Max 6.0 cps @ 77°F
     Boiling point 212°F @ 760 mm Hg
     Flash point None
   • No dangerous reactions are known to occur with correct handling and storage.

10. Stability and Reactivity.
    • Basically stable. Avoid contact with aluminum or alkaline materials.

11. Toxicological Information.
    • Acute oral toxicity (albino rats): LD₅₀ = Greater than 34,000 mg/kg
    • Acute dermal toxicity (albino rabbits): LD₅₀ = Greater than 10,000 mg/kg
    • Primary skin irritation test (albino rabbits): Skin irritation index draize rating: 0.125/8.0 minimally irritating.
    • Primary eye irritation test (albino rabbits): eye irritation index draize rating: 4.0/10.0 minimally irritating.
    • Inhalation of excessive dust (if the mixture dries out) may result in lung damage.
    • Carcinogenicity: Not listed as carcinogen by OSHA, NTP or IARC

12. Ecological Data.
    • No ecotoxicological studies are available. See CERCLA section 14, if released into the environment.

    • Waste is not hazardous as defined by RCRA (40CFR 2G1)
    • No special treatment required.

14. Transport Information.
    • No special transport requirements. Product is not regulated during transportation.

15. Regulatory Information.
    • OSHA Hazard Communications Standard, 29 CFR 1810.1200: None of the ingredients are hazardous.
    • RCRA: This material is not defined as hazardous water, per 40 CFR 261.
    • TSCA: These products contain materials listed in the TSCA inventory and is not otherwise regulated by TSCA Sec. 4, 5, 6, 7 or 12.
    • CERCLA: Materials not reportable under CERCLA. Local requirements may vary.
    • SARA: 311/312 hazard categories - immediate and delayed health, 313 reportable ingredients - none
      Does not contain any chemicals which require warning.

16. Other Information.
    • HMIS Rating: Health 1 Flammability 0 Reactivity 2 Other 0
      Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum

Prepared By: Donna Ringo, CIH
Date: 7/1/2014

Translated By:
Date: 

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