HAZARD MATERIAL IDENTIFICATION SYSTEM

Health Hazard 1 - Slight
Flammability Hazard 0 - Minimal
Reactivity Hazard 0 - Minimal

SECTION I.  MATERIAL IDENTIFICATION

Trade/Material Name: BONDING AGENT
Other Designations: 219-1530 Bondrite 30
Chemical Name: Acrylic Emulsion

SECTION II.  INGREDIENTS AND HAZARDS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS NO.</th>
<th>PERCENT</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aqueous Copolymer</td>
<td>------------</td>
<td>61-63</td>
<td>Not established</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>35-37</td>
<td>Non-Hazardous</td>
</tr>
<tr>
<td>Additives</td>
<td>various</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>Aqueous Ammonia</td>
<td>7664-41-7</td>
<td>&lt;.01</td>
<td>OSHA(PEL):TWA=50ppm</td>
</tr>
</tbody>
</table>

The precise composition is proprietary information. A more complete disclosure package is available and will be provided to a physician or nurse in event of a medical emergency.

SARA TITLE III: Section 313 Supplier Notification

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372.
### SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

- **Appearance and Odor:** Non viscous liquid with mild odor.
- **Solubility in Water:** Dilutable in all proportions
- **Specific Gravity (H₂O=1):** 1.02-1.04
- **Vapor Density (Air=1):** <1
- **Boiling Point:** ~100°C (~212°F)
- **Freezing Point:** <0°C (<32°F)
- **%Volatiles:** 69-71
- **Evaporation rate (butyl acetate=1):** <1

### SECTION IV. FIRE AND EXPLOSION DATA

- **Flash Point (method):** Not determined (aqueous system)
- **Extinguishing Media:** The product will only burn after the water it contains is evaporated. Use water fog or carbon dioxide or all-purpose foam.
- **Unusual Fire or Explosion Hazards:** Product does not burn until all the water has evaporated, but may splatter if the temperature exceeds the boiling point of water. Dried solids can burn giving off oxides of carbon and nitrogen.
- **Special Fire fighting Procedures:** Firefighter should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to keep fire-exposed containers cool.

### SECTION V. REACTIVITY DATA

- **Material is stable - Hazardous polymerization will not occur**
- **Chemical Stability:** Stable
- **Conditions to avoid:** Freezing, thawing, or boiling.
- **Chemical Incompatibility:** Avoid contact with acids, strong alkalies, and oxidizing agents.
- **Hazardous Decomposition Products:** Burning can produce carbon monoxide and dioxide.
SECTION VI. HEALTH HAZARD DATA

Summary of Health Risks and Symptoms of Exposure: Mild respiratory tract irritant. Inhalation of vapors may cause irritation in the respiratory tract and may produce symptoms of headache and nausea.

Exposure Limits: OSHA Permissible Exposure Limit (PEL) and Threshold Limit Value (ACGIH): Not established.

Effects of acute overexposure:

- **Ingestion:** No evidence of adverse effects from available information.
- **Inhalation:** Inhalation of vapors in poorly ventilated area may be irritating to eyes, mucous membranes, and respiratory tract and may produce symptoms of headache and nausea.
- **Skin Contact:** May be harmful if absorbed through the skin.
- **Eye Contact:** May cause eye irritation.

Emergency and First Aid Procedures:

- **Eye Contact:** Flush thoroughly with plenty of water for at least 15 minutes. Get medical help if irritation persists.
- **Skin Contact:** Wash skin with mild soap and water.
- **Inhalation:** Remove to fresh air. Get medical help for any breathing difficulty.
- **Ingestion:** Do not induce vomiting. Get prompt medical attention.

SECTION VII. PRECAUTIONS FOR HANDLING, USE OR DISPOSAL

Handling & Storage: Keep away from heat and flame. Since empty container retains product residue, follow warnings even after container is emptied. Keep container closed when not in use. Avoid breathing vapors.

Spill/Leak procedures: Restrict area to only those personnel needed. Spills may be collected with absorbent materials for disposal. Minor spills may be flushed with water to the sewer if permitted by federal, state and local regulations.

Waste Management/ Disposal: Incinerate. Observe all local, state or federal regulations for specific disposal information concerning health and environment.
SECTION VIII. SPECIAL PROTECTION INFORMATION

Personal Protective Equipment:

Eyes: Splash proof eye goggles should be worn.

Skin: Protective gloves and impermeable apron should be worn to minimize skin contact.

Respirator: Not required under normal conditions. Use MSHA/NIOSH-approved respirator for organic vapors if needed.

Workplace Considerations:

Ventilation: General (mechanical) room ventilation is expected to be satisfactory. Use locale exhaust to control mist or vapor.

Safety Stations: An eye wash station should be available to the area. A safety shower, and washing facilities should be available.

SECTION IX. SPECIAL PRECAUTIONS

DOT Class: Not regulated

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