Section 1: Product Identification

Product Name: Concrete Bonding Additive
Product Type: Bonding

Section 2: Hazard Identification

Product poses little hazard in ordinary use. Eye and skin irritation may occur from direct contact.

Applicable hazard statements:
H316: Causes mild skin irritation
H320: Causes eye irritation
H402: Harmful to aquatic life.

Applicable Precautionary Statements
P332+P313: If skin irritation occurs, get medical attention.
P264: Wash hands thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists,: Get medical attention.
P273: Avoid uncontrolled release to the environment.
P501: Dispose of contents in accordance with local, state, and federal regulations

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. It is categorized as a Health Hazard – Skin Irritant Category 3 and Eye Irritant – Category 2B. It is classified as Hazardous to the Aquatic Environment – Category 3.

HMIS® Rating: Health: 0 Fire: 0 Reactivity: 0

*HMIS® is a registered trademark of the National Paint and Coatings Association. Rating is based on potential for ethanol.*
### Section 3: Hazardous Ingredients/Composition

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Typical Percentage</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>35-65%</td>
<td>7732-18-5</td>
</tr>
<tr>
<td>Acrylic copolymer</td>
<td>25-35%</td>
<td>*</td>
</tr>
<tr>
<td>Nonionic surfactant</td>
<td>&lt;3%</td>
<td>*</td>
</tr>
</tbody>
</table>

*Specific chemical identities withheld as trade secret. It is available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

### Section 4: First Aid Measures

**Inhalation:**
Unlikely to be an inhalation hazard.

**Eye contact:**
Hold eyelids apart and flush eyes with plenty of water. At least fifteen minutes of flushing is recommended for any chemical contact. If any irritation persists, get medical attention.

**Skin Contact:**
Wash off with soap and water.

**Ingestion:**
Check with the Poison Control Center or a doctor. Do not induce vomiting.

**Symptoms of overexposure:** Direct contact can cause eye irritation. Repeated or extensive contact can cause skin irritation. May cause nose and throat irritation if misted, but not a likely route of exposure.

**Note to physician:** Treat according to symptoms. No known specific antidote.

### Section 5: Fire Fighting Measures

**Fire extinguishing media:** Appropriate for surrounding materials (carbon dioxide, water spray, dry chemical, foam).

**Special fire fighting procedures:** none

**Unusual fire and explosion hazards:** None expected

**Hazardous combustion products:** carbon monoxide, carbon dioxide, carbon products such as acrylates from incomplete combustion

### Section 6: Accidental Release Measures

Contain and soak up with absorbent material. Clean area with water.
Section 7: Handling and Storage

To protect the product, keep from freezing or excessive heat. May coagulate if frozen or after extended storage. Can develop a bacterial odor after extended storage. Keep container tightly closed. Wash hands after use. Do not eat, drink, or use tobacco products when handling any chemical products.

Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:
None established
(No OSHA PEL. No ACGIH TLV®. No NIOSH REL)

Engineering Controls:
No special measures are needed.
Local exhaust ventilation is not required

Personal protective equipment
Respiratory protection: Not required under conditions of normal use.
Skin protection: Wear water-impermeable gloves such as neoprene, nitrile, PVC, or natural rubber gloves, particularly for prolonged contact. Use face shield if splashing is likely.
Eye protection: Wear chemical safety goggles if eye contact may be likely.

Section 9: Physical and Chemical Properties

Appearance and odor: milky white liquid, mild odor (similar to latex paint)
Flash point: noncombustible.
Flammable limits: N/A
Boiling Point: 212°F (estimated)
Freezing point: ~ 32°F (estimated)
Specific Gravity: 1.05
Solubility in water: miscible
pH: 7-8
Evaporation rate (butyl acetate = 1): <1 (equivalent to water)
Section 10: Stability and Reactivity

**Stability:** stable
**Conditions to avoid:** none known.
**Incompatibility:** strong oxidizing agents
**Hazardous polymerization:** will not occur
**Hazardous decomposition products:** none likely unless material is in a fire.

Section 11: Toxicological Information

Not considered acutely toxic.

No ingredients are listed as carcinogenic according to IARC, ACGIH, NTP, or OSHA. Not a sensitizer.

For acrylic copolymer:
- Oral LD50 (rat): >2000 mg/kg (similar material)
- Dermal LD50 (rat): >2000 mg/kg (similar material)

Aquatic toxicity for acrylic copolymer + surfactant (species not specified)
- LC50 >100 mg/L

For nonionic surfactant:
- Oral LD50 (rat): 4000 mg/kg
- LC50 for fish (Bluegill): >10 mg/L (96 hours)
- LC50 for Mysid shrimp = 0.26 mg/L

Based on toxicity to shrimp, classify as Hazardous to the Aquatic Environment, Category 3.

Section 12: Ecological Information

**Ecotoxicity** Product as a whole has not been tested. Material similar to acrylic copolymer/surfactant was practically nontoxic to aquatic organisms, but surfactant alone was highly toxic to Mysid shrimp.

**Persistence and degradability:** Not likely to biodegrade

**Mobility in soil:** no information available.

**Bioaccumulation:** based on ingredients, not likely to bioaccumulate.
Section 13: Disposal Considerations

Do not sewer or dump on the ground
As provided, not a RCRA-regulated waste.
Dispose of in accordance with federal, state, and local regulations.

Section 14: Transportation

Not a DOT-regulated hazardous material. Not classified as dangerous goods for DOT, IATA, IMDG, TDG

Section 15: Regulatory Information

This product does not contain 0.1% or more of any
- chemicals regulated under:
  CERCLA
  SARA 302 EHS
  SARA 311/312
  SARA 313
- Hazardous Air Pollutants.
- chemicals known to the state of California to cause cancer or reproductive effects.
- Chemicals on the New Jersey Right to Know Hazardous Substance List

Section 16: Other Information

Additional information on the product is available at. www.tccmaterials.com

Date and Revision: 12 January 2013, Revision 1

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