



## Retarder

### Material Safety Data Sheet

#### Section 1: Product & Company Information

**Product Name:** Retarder  
**Manufacturer:** SureCrete Design Products

**Address:** SureCrete Design Products  
15246 Citrus Country Drive  
Dade City, FL 33523

**Emergency Phone: 1-352-567-7973**  
**CHEMTREC: 1-800-424-9300**

**Service Used:** Cement Retarder  
**Application:** Finishing Aid

#### Section 2: Ingredient Information

Citric Acid, Anhydrous <12% in suspension (CAS# 77-92-9) / TLV not established

#### Section 3: Physical/ Chemical Characteristics

|   |  |
|---|--|
| <b>Boiling Point:</b> 212°F                                 | <b>Specific Gravity (H<sup>2</sup>O = 1):</b> ~1 |
| <b>Solubility In Water:</b> completely                      | <b>Percent Volatile by Volume:</b> >90           |
| <b>pH:</b> <7   |  |
| <b>Evaporation Rate (H<sup>2</sup>O = 1) :</b> ~1           |  |
| <b>Appearance and Odor:</b> Nearly clear, slight acid smell |  |

#### Section 4: Fire and Explosion Hazard Data

|  |                         |                |                |
|--|-------------------------|----------------|----------------|
| <b>Flash Point:</b> NA                                     | <b>Flammable Limits</b> | <b>LEL:</b> NA | <b>UEL:</b> NA |
| <b>Extinguishing Media:</b> As for surrounding materials   |                         |                |                |
| <b>Special Fire Fighting Procedures:</b> None anticipated  |                         |                |                |
| <b>Unusual Fire and Explosion Hazard:</b> None anticipated |                         |                |                |

#### Section 5: Reactivity Data

|   |  |
|---|--|
| <b>Stability:</b> Stable  | <b>Conditions To Avoid:</b> Extreme heat |
| <b>Incompatibility (Materials to Avoid):</b> None                 |  |
| <b>Hazardous Decomposition or Byproducts:</b> CO, CO <sub>2</sub> |  |
| <b>Hazardous Polymerization:</b> will not occur                   |  |

**Section 6: Health Hazard Data**

|   |   |   |                                    |
|---|---|---|------------------------------------|
| <b>Route(s) of Entry:</b>   | Skin and Eye Contact  | Ingestion   |                                    |
| <b>Carcinogenicity:</b> not listed  |   |   |                                    |
| <b>Medical Conditions Generally Aggravated by Exposure:</b> People with preexisting eye or skin disorder may be more susceptible to the effects of this product.                              |   |   |                                    |
| <b>Symptoms of Over Exposure:</b> <b>Inhalation:</b> not likely to occur. <b>Ingestion:</b> Abdominal pain, diarrhea, stomach upset. <b>Eyes:</b> Redness irritation. <b>Skin:</b> Irritation |   |   |                                    |
| <b>Emergency and First Aid Procedures</b>   |   |   |                                    |
| <b>Inhalation:</b> Move to fresh air. Rest upright. If discomfort persists get medical help.  | <b>Skin Contact:</b> Wash off with water. Wash clothing before reuse. | <b>Eye Contact:</b> Rinse with running water for 15 mins.- hold eyelids apart while irrigating. Get medical help. | <b>Ingestion:</b> Call a physician |

**Section 7: Precautions for Safe Handling and Use**

|   |
|---|
| <b>Steps to Be Taken if Material is Released or Spilled:</b> Confine spill and soak up on absorbent material & place in a sealable container. |
| <b>Waste Disposal Method:</b> Dispose of in accordance with applicable federal, state, and local regulations.                                 |
| <b>Precautions to Be Taken in Handling and Storage:</b> Normal precautions according to good housekeeping practices should be followed.       |
| <b>Other Precautions:</b> Store in original containers, below 120°F.  |

**Section 8: Control Measures**

|   |                                    |                                       |                    |
|---|------------------------------------|---------------------------------------|--------------------|
| <b>Respiratory Protection:</b> NA                                   |                                    |                                       |                    |
| <b>Ventilation</b>  |                                    |                                       |                    |
| <b>Local Exhaust:</b> NA  | <b>Mechanical (General):</b><br>NA | <b>Special:</b> None known            | <b>Other:</b> None |
| <b>Protective Gloves:</b> Rubber or plastic gloves                  |                                    | <b>Eye Protection:</b> Safety goggles |                    |
| <b>Other Protective Clothing or Equipment:</b> NA                   |                                    |                                       |                    |
| <b>Work / Hygienic Practices:</b> Normal good housekeeping practice |                                    |                                       |                    |

**Section 9: Transport Information**

|                                       |
|---------------------------------------|
| <b>UN Number:</b> NA                  |
| <b>IMDG Class:</b> not regulated      |
| <b>ADR/RiID Class:</b> not regulated  |
| <b>ICAO-IATA Class:</b> not regulated |