SAFETY DATA SHEET

SECTION 1 Product and Company Identification
Product
Product Name: Retarder
Product Description: Cementitious retarder
Intended Use: Slowing the set of cement-based products

Company
Manufacturer: SureCrete Design Products, Inc.
15246 Citrus Country Drive
Dade City, FL 33523
USA
Contact: 352-567-7973 (telephone general)
800-262-8200 Chemtrec
+1 703-741-5500 Chemtrec International
info@surecretedesign.com (e-mail)
352-521-0973 (facsimile)

SECTION 2 Hazards Identification
Classification of substance or mixture:
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Eye irritation Category 2A H319

GHS Label Elements:
Hazard symbol:
![Exclamation Mark]

Signal word: Warning

Label Hazard Statements:
H319: Causes serious eye irritation

Label Precautionary Statements:
P264: Wash exposed skin thoroughly after handling
P280: Wear eye protection
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 advice/attention

SECTION 3 Composition / Information on Ingredients
This material is regulated as a mixture
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>EC#</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazardous</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric Acid, Anhydrous</td>
<td>77-92-9</td>
<td>ND</td>
<td>&lt;14%</td>
</tr>
<tr>
<td><strong>Non hazardous</strong></td>
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<tr>
<td></td>
<td>Trade secret</td>
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<td>&lt;93%</td>
</tr>
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</table>

The exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4 First Aid Measures

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact:** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Inhalation:** Assure fresh air breathing. Allow the victim to rest.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Most important symptoms and effects, both acute and delayed:**
- Eye contact: Causes serious eye irritation.
- Inhalation: May cause respiratory irritation.
- Skin contact: May cause respiratory irritation.
- Ingestion: Nausea.

### SECTION 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream.

**Special Hazards:** Not flammable.

**Unusual Fire and Explosion Hazard:** Not applicable.

**Advice for firefighters:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Further information:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

### SECTION 6 Accidental Release Measures

**Personal precautions:** Evacuate unnecessary personnel.

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Methods for clean-up: Wet product may be scraped up and placed in appropriate disposal containers. Allow wet product to dry before disposal. Do not flush down drains. Store separated from other materials.

SECTION 7 Handling and Storage
Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Wash exposed skin thoroughly after handling.

Conditions of safe storage, including any incompatibilities: Keep only in the original container in a cool, well ventilated place away from: incompatible materials strong bases and strong oxidizers. Keep container closed when not in use. Keep out of direct sunlight.

SECTION 8 Exposure Control / Personal Protection
Exposure Controls
Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment
Eye/face protection: Chemical goggles or safety glasses.

Hand protection: Wear impervious gloves to eliminate skin contact.

Respiratory protection: Wear appropriate mask.

Hygiene Measures: Do not eat, drink or smoke during use.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways. Discharge into the environment must be avoided.

SECTION 9 Physical and Chemical Properties
General
Physical state: liquid
Color: clear
Odor: no distinct odor
Odor Threshold: Not available

Safety Data
pH in water: >7
Melting point: Not available
Boiling point: 212°F (100°C)
Flash point: Not available
Freeze Point: 32°F (0°C)
Evaporation rate: Not applicable
Vapor pressure (mm Hg.): Not applicable
Water solubility: Soluble
Vapor density (air = 1): Not applicable
Relative density: No data available
SECTION 10 Stability and Reactivity

Reactivity: None

Chemical stability: Not established.

Possibility of Hazardous reactions: Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible materials: Strong acids. Strong bases.


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SECTION 11 Toxicological Information

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Inhalation LC50</th>
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<tbody>
<tr>
<td>Citric Acid, Anhydrous 77-92-9</td>
<td>5400 mg/kg</td>
<td>No data available</td>
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</table>

Acute Toxicity: Not classified.

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified. Based on available data, the classification criteria are not met

Aspiration hazard: Not classified. Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms:

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Slight irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

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SECTION 12 Ecological Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Fish</th>
<th>Algae/aquatic plants EC50</th>
<th>Crustacea EC50</th>
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**LC50**

<table>
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<tr>
<th>Product</th>
<th>LC50</th>
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<tbody>
<tr>
<td>Citric Acid, Anhydrous</td>
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<td>440 mg/L</td>
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<td></td>
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<td>Daphnia 1534 mg/L</td>
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**Persistence and degradability:** No data available.

**Bio accumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** Avoid release to the environment.

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**SECTION 13 Disposal Considerations**

**Methods of disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

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**SECTION 14 Transport Information**

**International transport regulations**

This product is not regulated for transport.

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Additional information</th>
<th>Marine pollutant</th>
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<tr>
<td>ADR/RID class</td>
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<tr>
<td>IMDG class</td>
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<tr>
<td>IATA class</td>
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<td>none</td>
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</table>

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**SECTION 15 Regulatory Information**

**US federal regulations:** This product is hazardous according to OSHA 29 CFR 1910.1200.

Listed on the U.S. EPA TSCA Inventory List.

**US state regulations:** No data available.

**International lists:**

Canadian Domestic Substances List (DSL): Listed on the DSL.

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**SECTION 16 Other Information**

**Recommended restriction:** for use by trained professionals, having read the complete SDS

**Hazard Ratings**

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<th>physical</th>
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<tr>
<td>NFPA</td>
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</table>
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