

Product Name: Retarder
Revision Date 01/01/2016

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:



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



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| Ingredient | CAS # | EC# | % (by weight) |
|------------------------|--------------|-----|---------------|
| Hazardous | | | |
| Citric Acid, Anhydrous | 77-92-9 | ND | <14% |
| Non hazardous | | | |
| | Trade secret | | <93% |

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.



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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

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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.

Hazardous decomposition products: Fume. Carbon monoxide. Carbon dioxide.

SECTION 11 Toxicological Information

Component Information

| Chemical Name | Oral LD50 | Inhalation LC50 |
|-----------------------------------|------------|-------------------|
| Citric Acid, Anhydrous 77-92-9 | 5400 mg/kg | No data available |

Acute Toxicity: Not classified.

| | |
|---|--|
| <i>Skin corrosion/irritation:</i> | Not classified |
| <i>Serious eye damage/irritation:</i> | Causes serious eye irritation. |
| <i>Respiratory or skin sensitization :</i> | Not classified |
| <i>Germ cell mutagenicity:</i> | Not classified. Based on available data, the classification criteria are not met |
| <i>Carcinogenicity:</i> | Not classified |
| <i>Reproductive toxicity:</i> | Not classified. Based on available data, the classification criteria are not met |
| <i>Specific target organ toxicity (single exposure):</i> | Not classified |
| <i>Specific target organ toxicity (repeated exposure):</i> | Not classified. Based on available data, the classification criteria are not met |
| <i>Aspiration hazard:</i> | Not classified. Based on available data, the classification criteria are not met |
| <i>Potential Adverse human health effects and symptoms:</i> | Based on available data, the classification criteria are not met. |
| <i>Symptoms/injuries after inhalation:</i> | May cause respiratory irritation. |
| <i>Symptoms/injuries after skin contact:</i> | Slight irritation. |
| <i>Symptoms/injuries after eye contact:</i> | Causes serious eye irritation. |

SECTION 12 Ecological Information

| Chemical Name | CAS No | Fish | Algae/aquatic plants EC50 | Crustacea EC50 |
|---------------|--------|------|---------------------------|----------------|
|---------------|--------|------|---------------------------|----------------|



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| | | | | |
|------------------------|---------|-------------|-------------------|----------------------|
| | | LC50 | | |
| Citric Acid, Anhydrous | 77-92-9 | 440 mg/L | No data available | Daphnia 1534 mg/L |

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.

SECTION 13 Disposal Considerations

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

Section 14 Transport Information

International transport regulations

This product is not regulated for transport.

| <i>Regulatory Information</i> | <i>UN number</i> | <i>Proper shipping name</i> | <i>Class</i> | <i>Packing group</i> | <i>Additional information</i> | <i>Marine pollutant</i> |
|-------------------------------|------------------|-----------------------------|--------------|----------------------|-------------------------------|-------------------------|
| DOT | | Not regulated | | | none | |
| ADR/RID class | | Not regulated | | | none | |
| IMDG class | | Not regulated | | | none | |
| IATA class | | Not regulated | | | none | |

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.

SECTION 16 Other Information

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

Hazard Ratings

| | <i>health</i> | <i>flammability</i> | <i>physical</i> |
|-------------|---------------|---------------------|-----------------|
| HMIS | 1 | 0 | 0 |
| NFPA | 1 | 0 | 0 |



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