



Product Name: Color Hardener
Revision Date 06/19/12

MATERIAL SAFETY DATA SHEET

SECTION 1 Product and Company Identification

Product

Product Name: Color Hardener
Product Description: Concrete Surface Treatment
Intended Use: decorative / restorative

Company

Manufacturer: SureCrete Design Products, Inc.
15246 Citrus Country Drive
Dade City, FL 33523
USA
Contact: 352-567-7973 (telephone general)
800-424-9300 (telephone emergency – Chemtrec)
813-469-1408 (telephone 24 hour emergency)
813-469-1419 (telephone 24 hour emergency)
info@surecretedesign.com (e-mail)
352-521-0973 (facsimile)

SECTION 2 Hazards Identification

Emergency Overview

The dry product mix poses no immediate hazard. A single short term exposure to dry product is unlikely to cause serious harm. However, exposure of sufficient duration to wet product can cause serious, potentially irreversible tissue (eye or skin) destruction in the form of chemical (caustic) burns. The same type of damage can occur if the wet or moist areas of the body are exposed for sufficient duration.

Warning! Harmful if inhaled. Overexposure by inhalation may induce delayed, irreversible upper respiratory injury (silicosis.) This product is considered hazardous by OSHA Hazard Communication Standard. See section 11 notes. Product does not pose a fire hazard.

SECTION 3 Composition / Information on Ingredients

This material is regulated as a mixture

Ingredient	CAS #	EC#	% (by weight)
Hazardous			
Portland Cement type 1	65997-15-1	ND	<35%
Quartz Silica Sand	14808-60-7	ND	<70%
Titanium Dioxide Pigment	13463-67-7	ND	0 – 3 %
Non Hazardous			
Synthetic iron oxide (black)	1317-61-9	215-277-5	0 - 3%
Synthetic iron oxide (red)	1309-37-1	215-168-2	0 - 3%
Synthetic iron oxide (yellow)	20344-49-4	243-746-4	0 - 3%



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SECTION 4 First Aid Measures

Eye Contact: Rinse with running water for 15 mins. Hold eyelids apart while irrigating. Call physician immediately.

Skin Contact: Wash affected area thoroughly with soap and water. Wash clothing before reuse.

Inhalation: Move to fresh air. Get medical attention if coughing and other symptoms do not subside.

Ingestion: Not expected in normal use of product. Ingestion may signal a severe mineral deficiency, particularly iron that requires immediate medical intervention.

SECTION 5 Fire Fighting Measures

Extinguishing Media: not combustible

Appropriate: none

Inappropriate: none

Fire Fighting Procedures: none

Unusual Fire and Explosion Hazard: none

Hazardous Combustion Products: none

Flammability Properties

Flash Point (Method): None

Flammable Limits (Approximate volume % in air): LEL: none UEL: none

Autoignition Temperature: not combustible

SECTION 6 Accidental Release Measures

Personal precautions: Utilize NIOSH approved respirator. Ventilate area. Avoid contact with eyes, skin, and clothing.

Environmental precautions: Prevent entry into waterways.

Methods for clean-up: Dry spills may be scooped up. Attempt to prevent dry product (dust) from becoming airborne. Wet product may be scraped up and placed in appropriate disposal containers. Do not flush down drains.

SECTION 7 Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Usual precautions for nuisance dust should be observed. Wash thoroughly after exposure to product.

Storage: Keep bags dry. Keep out of reach of children.

SECTION 8 Exposure Control / Personal Protection

Exposure limit values: ACGIH TLV-TWA 2 mg total dust/ m³
OSHA-PEL (8 – hour TWA) 15 mg total dust/ m³
OSHA-PEL (8 – hour TWA) 5 mg respirable dust/ m³



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Occupational exposure controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Respiratory protection: Wear suitable NIOSH approved respirator.

Hand protection: Impervious gloves if contact is anticipated

Eye protection: Safety glasses with side shields

Skin protection: Minimize skin contact with appropriate long-sleeved clothing.

Hygiene measures: Observe good industrial hygienic practices. Frequently launder or discard protective clothing, equipment.

Environmental exposure controls: None anticipated

SECTION 9 Physical and Chemical Properties

General

Physical state: gritty powder

Color: varies by color (white, black, red, yellow)

Odor: no distinct odor

Safety Data

pH in water: 9 -13

Boiling point: not applicable

Flash point: not applicable

Flammable limits (approximate volume % in air): not combustible

Autoignition temperature: not applicable

Vapor pressure (mm Hg.): not applicable

Water solubility: insoluable

Vapor density (air = 1): not applicable

Specific gravity (water = 1): 2.7 – 3.0

SECTION 10 Stability and Reactivity

Stability: Stable

Conditions to avoid: dust generation, unintentional contact with moisture

Incompatibility: may react with strong acids to produce carbon dioxide gas

Hazardous decomposition products: none

Hazardous polymerization: none

SECTION 11 Toxicological Information

Acute Toxicity

Route of Exposure	Conclusion / Remarks
Inhalation	Exposure to airborne dust may cause irritation, cough, expectoration, shortness of breath, wheezing. Repeated overexposure to dust at very high levels can cause acute silicosis, an incurable, rapidly progressing fatal lung disease.



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<i>Ingestion</i>	Can cause esophageal and stomach burns
<i>Skin</i>	Direct contact with wet product may cause extensive burns with dermal necrosis. There may be no obvious pain at the time of exposure.
<i>Eye</i>	Contact with dry or wet product may cause burning and corneal edema.

Chronic / Other Effects

Chronic bronchitis may result from chronic exposure to dust.

Prolonged exposure to crystalline silica can cause silicosis. This product contains crystalline silica, which is a cancer hazard if inhaled.

Carcinogenicity:

Quartz Silica Sand listed in Section 3 has been identified by IARC as carcinogenic: "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1.)" The IARC noted that "carcinogenicity was not detected in all industrial circumstances studies."

Titanium Dioxide listed in Section 3 does not show an increase in lung cancer in the work force as a result of exposure to TiO₂ dust according to epidemiology studies. IARC recently evaluated = Group 2b (possibly carcinogenic to humans). Not listed as a carcinogen by NTP, OSHA, ACGIH.

Teratology: not teratogenic

Reproduction: not toxic reproductively

Mutagenicity: not mutagenic

SECTION 12 Ecological Information

This material is not expected to be biodegradable when released into the soil, nor is it expected to significantly bioaccumulate. This product will raise the pH in water when released that may cause a detrimental effect upon aquatic life.

SECTION 13 Disposal Considerations

Methods of disposal: This material may be safely landfilled in accordance with federal, state, and local environmental control 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	
IMO/IMDG		Not regulated			none	
ICAO/IATA		Not regulated			none	



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SECTION 15 Regulatory Information

TSCA (USA - Toxic Substance Control Act)

CAS showing in section 3 is listed on TSCA inventory list

SARA Title III (USA – Superfund Amendments and Reauthorization Act)

302 not classified as “Extremely Hazardous Substance”

304 No “Threshold Planning Quantity” established

311/312 *Physical Hazard*

Fire: none

Sudden Release of Pressure: none

Reactivity: none

Health Hazards

Acute: yes

Chronic: yes

313 Reportable Ingredients: None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product may contain elements known to the State of California to cause cancer, birth defects, or reproductive harm. California law requires the manufacturer to give the above warning in the absence of definitive testing to prove the defined risks do not exist.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL

SECTION 16 Other Information

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

Key Legend:

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

R – Risk Phrases

S – Safety Phrases

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To the best of our knowledge the information contained here is accurate. However, neither the above named manufacturer nor any of its distributors assumes any liability whatsoever for the accuracy or the completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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