

Architectural Color Hardener

Section 1 Product Description

Product Name: Reflecto-Crete Architectural Color Hardener
Recommended Use: Cement Surface Color Hardener
Supplier: ChemSystems, Inc. 10101 Genard Road Houston, TX 77041
P: 800.545.9827 • F: 713.329.9065 www.chemsystemsinc.net
Emergency Phone: CHEMTRAC 1-800-424-9300

Section 2 Hazard identification

Environmental, Hazards to the aquatic environment - Acute, 3
Health, Acute toxicity, 5 Inhalation
Health, Acute toxicity, 5 Dermal
Health, Acute toxicity, 5 Oral
Health, Serious Eye Damage/Eye Irritation, 1
Health, Respiratory or skin sensitization, 1 Respiratory



Signal Word

Danger

Hazard Statements

H402 - Harmful to aquatic life
H333 - May be harmful if inhaled
H313 - May be harmful in contact with skin
H303 - May be harmful if swallowed
H318 - Causes serious eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements

Prevention:

P264 - Wash thoroughly after handling
P352 - Wash with soap and water

Note: product may contain small traces of silica below 0.1%
Use respiratory protection and hazard controls. Use particulate protection.
Gloves and /or skin protection is recommended.
Safety glasses or eye protection recommended.

Emergency overview: Immediate or delayed hazard: Exposure of sufficient time to wet Portland cement directly on surface, OR on moist areas of the body to DRY powder cement, can cause serious skin or eye injuries in the form of chemical or caustic burns.

Human Health Hazards: Not to be expected if handled and used properly.

Chronic Health Hazard: Product contains a substance which may have chronic respiratory health hazards including cancer and silicosis. Handle with the proper hazard controls.

Safety Data Sheet

Section 3 Composition/ Information on Ingredients

	<u>CAS #</u>	<u>OSHA PEL(TWA)</u>	<u>ACGIH(TLV-TWA)</u>	<u>Conc.(wt. %)</u>
Silicate (Portland Cement)	65977-15-1	10 mg/m3 (Total Dust) 5 mg/m3 (Respirable)	Same as OSHA PEL	>5
Silicon Dioxide (Sand)	14808-60-7	10 mg/m3/%SiO ₂ + 2 Respirable as crystalline quartz	0.1 mg/m3	>5
Iron Aluminum Silicate	12415-34-8	10 mg/m3) / %SiO ₂ + 2 Respirable as crystalline quartz	0.1 mg/m3	>5
Inorganic Metal Oxide Mixture	Not established	Not established	Not established	>1

Section 4 First Aid Measures

Emergency First Aid Procedures

Skin: Wash with clean water and pH neutral soap. Do not attempt to neutralize pH with chemicals. Avoid use of caustic soap. Seek medical attention if symptoms persist or worsen.

Eyes: Do not rub eyes. Flush with clean water. Remove contact lenses. Seek immediate medical attention.

Inhalation: Remove to fresh air, rinse nose and mouth with plenty of fresh water. If breathing difficulties occur seek immediate medical attention. Prolonged exposure may cause chronic respiratory disease. This product contains silica which is known to cause chronic silicosis following long term exposure.

Ingestion: Drink large amounts of fresh water or milk. Do not induce vomiting. Do not give any water, by mouth, to an unconscious person. Seek medical attention if symptoms persist or worsen.

Section 5 Firefighting Procedures

Suitable Extinguishing Media: Use of CO₂, foam or dry chemical water spray during a fire is recommended.

Unsuitable Extinguishing Media: N/A

Flash Point (TCC): Non-combustible

Flammable Limits (% volume in air for solvents): LEL=N/A UEL=N/A

Special Fire Fighting Procedures: Use normal fire fighting protective equipment.

Section 6 Spill or Leak Procedures

Steps to Take if Material is Released or Spilled: Sweep up and place in waste container. Do not discharge into drains or storm water. Material can be handled as normal solid waste.

Section 7 Handling and Storage

Normal Handling: Always use good industrial hygiene practices and safety guidelines.

Storage: Store material in its original container. Keep containers tightly closed when not in use. Keep material away from open flame, sparks, or other sources of heat and ignition.

Waste Disposal Method: Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Material can be handled as normal solid waste

Section 8 Protection Information

Respiratory Protection: NIOSH-approved dust respirator for 5 x PEL or less. (Reference FED/OSHA 29CFR 1910.134)

Ventilation: Use in well ventilated areas. Control airborne dust particulate and keep dust to a minimum..

Protective Gloves: Use work gloves or rubber gloves.

Eye Protection: Safety glasses or goggles recommended

Other Protective Clothing or Equipment: Coveralls or apron to reduce skin contact and keep personal clothing free of dust.

Work/Hygienic Practices: Wash thoroughly with soap and water after handling and before eating, smoking, or using washroom. If clothes become contaminated, change to clean clothing and wash contaminated clothes before re-use.

Section 9 Physical Data

Appearance: Coarse grain dry solid powder, color varies

Odor: Earthy Odor

Odor Threshold: Earthen Odor

pH: Caustic 12 – 13 in water

Freezing/Melting Point: N/A

Boiling Point: N/A

Safety Data Sheet

Flash Point: N/A
Evaporation Rate: N/A
Specific Gravity: 1.5 – 2.5
Flammability (solid, gas): Not Flammable
Lower/Upper Flammability: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Bulk Density: N/A
Solubility: very slight
Partition Coefficient: N/A
Auto-ignition Temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A

Section 10 **Reactivity Data**

Reactivity: Stable
Conditions to avoid: Keep Dry. Avoid contact with water and moisture, except in use.
Incompatibility (Materials to Avoid): Strong acids, ammonium salt and phosphorus.
Hazardous Decomposition (Byproducts): Adding water creates a caustic solution.
Hazardous Polymerization: None.

Section 11 **Toxicity Data**

Routes of Exposure: Ingestion, Inhalation, Eyes, and Skin.

Health Hazards:

Acute: May cause acute respiratory irritation.

Chronic: Contains low levels of crystalline silica connected with silicosis and chronic respiratory disease with chronic excessive exposure. Handle with proper respiratory protection.

Inhalation: May cause acute irritation and caustic burns to respiratory system. Prolonged contact may result in respiratory diseases including silicosis. Product contains crystalline silica which can cause silicosis in long term exposure. Use respiratory protection during handling of the dry product that results in an abundance of airborne particulate.

Skin Contact: Prolonged repeated contact may cause irritation. Significant long term exposure may result in tissue damage and caustic burns.

Eye Contact: May cause eye irritation. Prolonged repeated contact may cause eye damage and caustic burns.

Ingestion: Prolonged repeated contact may cause irritation. Significant long term exposure may result in tissue damage and caustic burns.

Carcinogen: One or more components may cause cancer.

Mutagenicity: Not know to be mutagenic.

Teratogenicity: not know to be teratogenic.

Aggravation of Pre-existing Conditions: Persons with existing pulmonary disorders must avoid breathing any dust generated during the use of this product.

Section 12 **Ecological Data**

Ecological testing has not been performed on this product. Dispose of contents and container properly. Do not dump. Prevent contact with waterways and storm drains.

Section 13 **Disposal Information**

Waste Disposal Method: Dispose of content in accordance with all Federal, State and Local regulations when storing and disposing of substances. Do not allow material to run off work area, and final rinsing should be absorbed or vacuumed and disposed of in accordance with regulations.

RCRA: This mixture and or its contents are not a hazard waste if disposal is required.

Section 14 **Transport Information**

UN: Not Classified

US DOT: Not Classified

UN Shipping Class: Not Classified

UN Packing Group: Not Classified

Section 15 **Regulatory Information**

Safety Data Sheet

International Inventories and U.S. Regulations : All components of this product are listed on or are exempt from the following inventories:

OSHA hazard category: Crystalline silica (quartz) is not regulated as a human carcinogen but as a toxic and hazardous substance.

RCRA This mixture and or its contents are not a hazardous waste if disposal is required

CERCLA Components of this mixture are not CERCLA hazardous substances.

CONEG This mixture and or its contents meet the CONEG limits for the sum of the levels of Lead, Cadmium, Mercury, and Hexavalent Chromium of less than 100 PPM by weight.

RoHS Product does not contain RoHS restricted substances.

ODC This mixture does not contain any Ozone Depleting Compounds.

TOX This mixture does not contain any Organic Halogens (EPA 9020)

CAA of 1990 This mixture is not made with nor does it contain any Class 1 or Class 2 ozone depleting substances as defined under the 1990 amendments to the act.

SARA (302) This mixture does not contain any constituents that are identified as extremely hazardous.SARA (302)

SARA (311/312) Portland cement qualifies as a hazardous substance with delayed health effects. Portland cement may contain crystalline silica which is classified by the IARC as a known carcinogen. Some studies indicate potential for lung cancer or lung injury including silicosis. Reportable in quantities over 10,000 lbs.

CA Prop 65 This product contains a chemical(s) known to the state of California to cause cancer and/or birth defects or other reproductive harm. Pursuant to the California Safe Drinking Water and Toxic Enforcement Act of 1986, we are required to provide the above warning in the absence of definitive testing showing that risks from long-term exposure to chemicals present in our formulations do not exist. To the best of our knowledge, this product complies with all Federal and State laws and regulations governing its manufacturing, distribution, and intended use.

Section 16 Additional Information

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.