

**Design-Crete Color Hardener (All Colors)****MSDS No. 82030**

Date of Creation: 12/21/1999

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Revision: 19

**Section 1 - Chemical Product and Company Identification****Product/Chemical Name:** Design-Crete Color Hardener (All Colors)**Chemical Formula:** N/A**CAS Number:** N/A**Other Designations:** N/A**Manufacturer:** Symons

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<b>HMIS</b>	
<b>H</b>	1
<b>F</b>	0
<b>R</b>	0
<b>PPE†</b>	
†Sec. 8	

**EMERGENCY TELEPHONE NUMBER:** Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call CHEMTREC at 1-800-424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

**☆☆☆☆☆ Emergency Overview ☆☆☆☆☆**

Symons Design-Crete Color Hardener (All Colors):

- Is a powder
- Varies in color
- Is specifically listed as a carcinogen
- Contains Crystalline Silica, which is recognized by IARC as a Group 1 carcinogen, by NTP as a Group 2 carcinogen, and by the State of California (Proposition 65) as carcinogenic to humans.

**Section 2 - Composition / Information on Ingredients**

Ingredient Name	CAS Number	% wt
Calcium Sulfate dihydrate	013397-24-5	1-20
Silica, crystalline	014808-60-7	2
Portland Cement	065997-15-1	1-20

Chemical Name	OSHA			NIOSH				ACGIH			Canada			NIOSH IDLH
	TWA	STEL	Ceil.	TWA	STEL	Ceil.		TWA	STEL	Ceil.	TWA	STEL	Ceil.	
	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>		ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>	
Calcium Sulfate dihydrate		15.5a												
Silica, crystalline	a b													50 mg/m <sup>3</sup>
Portland cement		15.5a												5,000 mg/m <sup>3</sup>

**Notes:**

013397-24-5 - (a) Total dust; respirable fraction respectively.

014808-60-7 - (a) PEL Table Z-3, Respirable dust: 250/%SiO<sub>2</sub> + millions of particles per cubic foot of air (mppcfa); % of crystalline silica based on airborne samples.014808-60-7 - (b) PEL table Z-3, Respirable dust: 10mg/m<sup>3</sup> / % SiO<sub>2</sub> + 2 (determined from the fraction passing a size-selector); Total dusts: 30mg/m<sup>3</sup> / %SiO<sub>2</sub> + 2.

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014808-60-7 - (c) Respirable mass; Total mass respectively.

014808-60-7 - (d) Respirable fraction of particulate matter for the substance listed. The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in the "C" paragraph pr Appendix D.

014808-60-7 - (e) Lowest feasible concentration.

065997-15-1 - (a) Total dust; respirable fraction respectively.

065997-15-1 - (b) Inhalable (total) particulate matter containing no asbestos and &lt; 1% crystalline silica.

Toxicity Data: N/A

## Section 3 - Physical and Chemical Properties

Physical Appearance: Varies depending on color ordered

Odor: None

Vapor Pressure: N/A

Vapor Density (Air=1): N/A

Specific Gravity (H<sub>2</sub>O=1, at 4 °C): 2.2

pH: Not Determined

Water Solubility: Negligible

Other Solubilities: None Known

Boiling Point: Not known to boil

Freezing/Melting Point: N/A

% Volatile: N/A

Evaporation Rate: N/A

## Section 4 - Fire-Fighting Measures

Flash Point: N/A

Flash Point Method: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Flammability Classification: Non-combustible

Extinguishing Media: N/A

Unusual Fire or Explosion Hazards: None Known

Hazardous Combustion Products: N/A

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

NFPA

0

1 0

## Section 5 - Stability and Reactivity

Stability: Design-Crete Color Hardener (All Colors) is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: None

Conditions to Avoid: None

Hazardous Decomposition Products: None Known

## Section 6 - Health Hazard Information

## Potential Health Effects

Primary Entry Routes: Inhalation

Target Organs: None Known

Acute Effects

Inhalation: Repeated inhalation of respirable dust for extended periods of time may cause injury to the lungs (silicosis).

Eye: N/A

Skin: N/A

Ingestion: N/A

Carcinogenicity: IARC, NTP, and OSHA do not list Design-Crete Color Hardener (All Colors) as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: None Known

Chronic Effects: Repeated inhalation of respirable dust for extended periods of time may cause injury to the lungs (silicosis).

## Emergency and First Aid Procedures

Inhalation: N/A

Eye Contact: Flush with water for 15 minutes. Call a physician.

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**Skin Contact:** Wash thoroughly with soap and water.**Ingestion:** N/A**After first aid, get appropriate in-plant, paramedic, or community medical support.****Note to Physicians:** None Known**Special Precautions/Procedures:** None Known

## Section 7 - Spill, Leak, and Disposal Procedures

**Spill /Leak Procedures****Small Spills:** Avoid excess dusting.**Large Spills****Containment:** For large spills, spray with water and clean up with broom and shovel. Do not release into sewers or waterways.**Cleanup:** Avoid excess dusting. Vacuum methods are recommended.**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations. Preferred procedure is to vacuum material. Otherwise, spray with water and clean up with broom and shovel.**Disposal Regulatory Requirements:** Follow applicable Federal, state, and local regulations.**Container Cleaning and Disposal:** Do not reuse containers until professionally cleaned.**EPA/OSHA/State Regulations:**

RCRA Hazardous Waste Number (40 CFR 261.33): None

CAS Number	RCRA Number	CERCLA Haz	CWA Priority	Class & Group	Ozone Deplete	SOCMI	HAP	Accidental Release in lbs.	Basis	NIOSH Carc.	OSHA Carc.	IARC Rating	NTP Rating	PSM TQ	CA Prop 65 Code	Florida Toxic	Mass. Codes	PA Codes	Air Contaminant	OSHA Spec. Reg Sub.	SARA Concentration (%)	SARA EHS TPQ	UVCB	TSCA Flags
013397-24-5																Y	4,5,6	-						
014808-60-7										NIOSH		1	2		C	Y	1,2,4 *E*C* F5	-	X					
065997-15-1																	4	-	X					

**State Regulations:** Consult individual state agency for further information.

## Section 8 - Exposure Controls / Personal Protection

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.**Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.** If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

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**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**Section 9 - Special Precautions and Comments**

**Handling Precautions:** Avoid dusty conditions.

**Storage Requirements:** None Known

**Other Precautions:** Avoid prolonged contact between skin surfaces and wet or moist Portland cement. Skin areas that have been in contact with wet or moist Portland cement should be washed thoroughly with soap and water.

**DOT Transportation Data (49 CFR 172.101):**

<b>Shipping Name:</b> Not a Regulated Material	<b>Packaging Authorizations</b>	<b>Quantity Limitations</b>
<b>Shipping Symbols:</b> N/A	a) <b>Exceptions:</b> N/A	a) <b>Passenger, Aircraft, or Railcar:</b> N/A
<b>Hazard Class:</b> Non-Hazardous	b) <b>Non-bulk Packaging:</b> N/A	b) <b>Cargo Aircraft Only:</b> N/A
<b>ID No.:</b> N/A	c) <b>Bulk Packaging:</b> N/A	
<b>Packing Group:</b> N/A	<b>National Motor Freight</b>	<b>Vessel Stowage Requirements</b>
<b>Label:</b> N/A	NMF-100-0: Concrete Surface	a) <b>Vessel Stowage:</b> N/A
<b>Special Provisions (172.102):</b>	Curing Compound	b) <b>Other:</b> N/A
N/A	<b>Item:</b> 33980 <b>Class:</b> 55	

**Prepared By:** Matthew D. Paquette

**Updated By:** Matthew D. Paquette

**Disclaimer:** The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof.

**Abbreviations:**

N/A = not applicable  
 ND = not determined  
 IDLH = Immediately Dangerous to Life and Health (in ppm unless otherwise noted)  
 X = Hazardous Air Pollutant (42 U.S.C. 7412(b)(1))  
 O = Organic Hazardous Air Pollutant (40 CFR 63 Table 2 to Subpart F)  
 V = Volatile Hazardous Air Pollutant (40 CFR 63 Table 2 to Subpart JJ)  
 CAA = Clean Air Act  
 CWA = Clean Water Act  
 HAP = Hazardous Air Pollutant  
 RCRA = Resource Conservation and Recovery Act  
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 UVCB = Unknown or Variable Composition, complex reaction products, and Biological materials.  
 E = A substance that is the subject of a 5(e) Consent Order under TSCA  
 F = A substance that is the subject of a Section 5(f) Rule under TSCA  
 N = A polymeric substance containing no free-radical initiator in its Inventory Name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.  
 P = A commenced PMN substance  
 R = A substance that is the subject of a Section 6 risk management rule under TSCA  
 S = A substance that is identified in a proposed or final Significant New Use Rule  
 T = A substance that is the subject of a Section 4 test rule under TSCA  
 XU = A substance exempt from reporting under the Inventory Update Rule.  
 Y1 = an exempt polymer that has a number-average molecular weight of 1,000 or greater  
 Y2 = an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.