

Safety Data Sheet

Dynamic Color Solutions Color Hardener



Section 1 Product Description

Product Name: Dynamic Color Solutions Color Hardener
Recommended Use: Concrete Coloring
Synonyms: Dynamicast, Shake On Color Hardener
Distributor: Dynamic Color Solutions
2024 S. Lenox, Milwaukee, WI 53217
(800) 657-0737
Chemical Information: (800) 657-0737 (8:00 AM - 4:30 PM (CT) M-F)
Revision Date: 5/1/15

Section 2 Hazard Information

Label Elements

Physical Hazards:	Not classified.	Hazard Symbol:	None.
Health Hazards:	Not classified.	Signal Word:	None.
Environmental Hazards:	Not classified.	Hazard Statement:	The substance does not meet the criteria for classification
OSHA Defined Hazards:	Not classified.	Precautionary Statement	
		Prevention:	Observe good industrial hygiene practices.
Hazard(s) Not Otherwise Classified (HNOC):	None known.	Response:	Wash hands after handling.
Supplemental Information:	None.	Storage:	Store away from incompatible materials.
Disposal:	Dispose of waste and residues in accordance with local authority requirements.	Conditions to Avoid:	Wet cement is alkaline and is incompatible with acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

Section 3 Composition / Information on Ingredients

Substances

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Natural Iron Oxide Ochre	1343-81-3	1 - 33
Red Iron Oxide	1309-37-1	1 - 33
Calcium Carbonate (Limestone, Whitening)	1317-65-3	1 - 33
Yellow Iron Oxide (Fe ₂ O ₃)	51274-00-1	1 - 33
Iron Oxide Black	1317-61-9	1 - 33
Burnt Umber	12713-03-0	0 - 100
Cobalt Oxide	1345-16-0	0 - 100
Chromium Oxide	1308-38-9	0 - 100
Titanium Dioxide	13463-67-7	0 - 100
Carbon Black	1333-86-4	0 - 100
Cement	65997-15-1	33 - 84
Quikrete All Purpose Sand	14808-60-7	15 - 33

Impurities

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Silica, Crystalline (Quartz)	14808-60-7	18 - 30

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Section 4

First Aid Measures

Inhalation:	If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: 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. May cause damage to cornea. May cause allergic reaction associated with hexavalent chromium.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Contact with fresh mortar may cause burns.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Get medical attention. Note to Physician: The three types of silicosis include: (1) Simple chronic silicosis—which results from long-term exposure (more than 20 years) to low amounts of respirable crystalline silica. Nodules of chronic inflammation and scarring provoked by the respirable crystalline silica form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD). (2) Accelerated silicosis—occurs after exposure to larger amounts of respirable crystalline silica over a shorter period of time (5 - 15 years). Inflammation, scarring and symptoms progress faster in accelerated silicosis than in simple silicosis. (3) respirable crystalline silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels. Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

Section 5

Firefighting Procedures

Extinguishing Media:	Use foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breather apparatus.
Fire and/or Explosion Hazards:	N/A
Hazardous Combustion Products:	None

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Released or Spilled:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area.
Environmental Precautions:	Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush spill to drain. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Gather and store in a sealed container pending a waste disposal evaluation. Prevent the spread of any spill to minimize harm to

Section 7

Handling and Storage

Handling:	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code:	Green—general chemical storage.

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Section 8

Protection Information

Occupational Exposure Limits

U.S. OSHA Table Z-3 (29 CFR 1910.1000)

	Type	Value	Form
SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7)	TWA	0.3 mg/m ³	Total dust.
		0.1 mg/m ³	Respirable.
		2.4 mppcf	Respirable.
Carbon Black/Elemental Carbon C (CAS 1333-6-4)	TWA	3.5 mg/m ³	Total dust.

U.S. ACGIH Threshold Limit Values Impurities

	Type	Value	Form
SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.
Carbon Black/Elemental Carbon C (CAS 1333-6-4)	TWA	3.5 mg/m ³	Total dust.
Green Chromium Oxide Powder Cr ₂ O ₃ (CAS 1308-38-9)	TWA	.500 mg/m ³	Total dust.

U.S. NIOSH: Pocket Guide to Chemical Hazards Impurities

	Type	Value	Form
SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7)	TWA	0.05 mg/m ³	Respirable dust.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles)
Skin Protection	
Hand Protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal Hazards	Wear appropriate thermal protective clothing, when necessary.
General Hygiene Considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9

Physical Data

Formula: Fe ₂ O ₃	Evaporation Rate (BuAc=1): N/A
Odor: No data available	Vapor Density (Air=1): N/A
Odor Threshold: No data available	Specific Gravity: Varies
pH: N/A	Solubility in Water: No data available
Melting Point: Not Available	Log Pow (calculated): No data available
Boiling Point: No data available	Autoignition Temperature: No data available
Flash Point: No data available	Decomposition Temperature: No data available
Flammable Limits in Air: N/A - N/A	Viscosity: No data available
Vapor Pressure: N/A	Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	None known
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	No hazardous decomposition products are known
Hazardous Polymerization:	Will not occur

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Section 11

Toxicity Data

Routes of Entry: Inhalation and ingestion

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
No data available	1309-37-1	Not determined	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
No Data Available	1309-37-1	Not Listed	Not Listed	Not Listed

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) 1 Carcinogenic to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Cement (CAS 65997-15-1)

U.S. National Toxicology Program (NTP) Report on Carcinogens

SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) Known To Be Human Carcinogen

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect)

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of a negative reproductive effects.

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: No data

Bioaccumulation: No data

Degradability: No data

Other Adverse Effects No data

Chemical Name	CAS Number	Eco Toxicity
N/A	1309-37-1	None

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

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Section 14

Transport Information

Ground - DOT Proper Shipping Name:

N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	Eco Toxicity	§313 Name	§304 RQ	CERCLA RQ
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No data available	1309-37-1	No	No	No	No
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Section 16

Additional Information

Revised: 09/03/2014

Replaces: N/A

Printed: 5/6/2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Dynamic Color Solutions makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary:

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substance Control Act
		IDLH	Immediately dangers to life and health