



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

LITHOCHROME® Color Hardener - 1110

SDS according to GHS OSHA 29 CFR 1910.1200 and 1272/2008/EC (CLP) amending 1907/2006/EC (REACH)

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 GHS Product Identifier

Commercial Product Name: LITHOCHROME® Color Hardener - 1110

Chemical Name: Mixture of silica (sand) aggregates, portland cement, pigments, pozzolans and additives (admixtures)

1.2 Relevant identified uses of product:

Product is a dry-shake color hardener for application to freshly-placed concrete to add color and increase abrasion resistance of concrete. This product is intended for use only by professionals. **KEEP OUT OF THE REACH OF CHILDREN.**

1.3 Details of the supplier of the safety data sheet:

L. M. SCOFIELD Company, A SIKA COMPANY **Scofield Phone No. (800) 800-9900** www.scofield.com
6533 Bandini Blvd, Los Angeles, CA 90040 Information Phone Number (323) 720-3000 8AM-5PM
4155 Scofield Road, Douglasville, GA 30134 Information Phone Number (770) 920-6000 8AM-5PM

1.4 Transportation Emergency Telephone Number: CHEMTREC (800) 424-9300

2 HAZARDS IDENTIFICATION

2.1 GHS Classification of substance or mixture:

Human Health:

Product contains silica sand, a form of crystalline silica. Properly fitted dust type respirators can control silica/cement dust exposure. Product contains portland cement which when wet can irritate the skin and seriously damage the eyes.

Acute toxicity, dermal, SE, H315, category 2

Acute toxicity, eyes, SE, H318, category 1

Carcinogenicity, STOT, lungs, Inhalation, RE, H350, category 1B

Carcinogenicity, STOT, lungs, Inhalation, RE, H351, category 2B

Environment: Product is not dangerous to environment, upon water contact it will set to a hard mass that is not biodegradable

2.2 Label elements:

GHS Hazard (H) Statements:

Acute Toxicity

H315--Causes skin irritation

H318--Causes serious eye damage

Chronic Toxicity

H350--May cause cancer (silicosis), from repeated or prolonged exposure to respirable silica, class 1B carcinogen.

H351--Suspected of causing cancer, repeated or prolonged exposure, IARC lists Titanium Dioxide as a class 2B carcinogen.

GHS Category Key
1 = most hazardous
5 = least hazardous



GHS Pictograms

GHS Signal Word: **WARNING**



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GHS Precautionary (P) Statements:

Prevention Precautionary Statements

P202--Do not handle until all safety precautions have been read and understood.

P280--Wear protective gloves/eye protection/face protection.

P284--Wear respiratory protection.

Response Precautionary Statements

P301+P330+P331--**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Call 911 or POISON CENTER 1(800) 222-1222 for advice on first aid treatment.

P302 + P352--**IF ON SKIN:** Wash with plenty of water.

P304 + P340--**IF INHALED:** Move person to fresh air and keep comfortable for breathing.

P305 + P351 + P338--**IF IN EYES:** Rinse eye(s) cautiously with clean water for 15 minutes. Remove contacts if easy to do. Continue rinsing.

P337+P313--**IF EYE IRRITATION PERSISTS,** get medical advice/attention.

Disposal: P501--Dispose of contents/container in accordance with applicable local/state/federal regulations

2.3 Other hazards: No other hazards are known

Refer to Section 16 for wording of terms.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main Constituent: Silica Sand

3.2 Mixture:

Components of Mixture	CAS #	EINECS #	Weight %
Portland Cement	65997-15-1	266-043-4	30 - 60%
Silica Sand, Crystalline Quartz	14808-60-7	238-878-4	40 - 70%
Crystalline Quartz, respirable fraction	14808-60-7	238-878-4	<0.1%
Flyash, Coal Combustion Residuals	68131-74-8	931-322-8	0 - 10%
Iron Oxide Pigments, black, yellow, red	mixture	mixture	0 - 10%
Titanium Dioxide Pigment	13463-67-7	236-675-5	0 - 10%
Chromium III Oxide Pigment	1308-38-9	215-160-9	0 - 10%

Iron oxides are non-hazardous, see PNOR

IARC lists titanium dioxide as a 2B carcinogen.

No known significant effects, see PNOR

The exact percentages in this composition have been withheld as a trade secret, and as confidential business information.

4 FIRST AID MEASURES

4.1 Description of first aid measures:

Eye Contact : Quickly flush eyes with plenty of clean water for 15 minutes. Remove contact lenses if easy to do. Open eyelids widely during flushing. If irritation persists, continue flushing and transport person to emergency room and bring these instructions for doctor. Provide easy access to eye wash station in work area.

Inhalation: Move person to fresh air, make comfortable for breathing. Get medical attention if condition worsens.

Skin Contact: May result in skin irritation. Remove contaminated clothing. Wash skin with soap and water.



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4.1 Description of first aid measures:

Ingestion: If swallowed, do NOT induce vomiting. Call 911 or a POISON CENTER (800) 222-1222 for instructions on first aid treatment. Transport person to the nearest emergency room and bring these safety instructions.

4.2 Most important symptoms and effects both acute and delayed:

Eye contact with cement (wet or dry) can cause serious and potentially irreversible injuries to eyes. If irritation persists after rinsing eyes, take person to emergency room for treatment. Repeated inhalation of respirable silica over long periods of time increases the risk of developing lung disease (silicosis). Cement may have an irritating effect that is most severe when sweating. Prolonged skin contact with wet product may cause serious burns that develop without pain being felt.

4.3 Indication of any immediate medical attention and special treatment needed:

Primary routes of entry include: Inhalation (dust), Eye Contact, Skin Contact. Eye contact requires immediate first aid. Refer to SECTION 11 for more detailed information on health effects and symptoms.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media: Use fire extinguishing media appropriate for surrounding fire.

5.2 Special Hazards arising from the substance or mixture:

Fire Hazard: Not flammable
Explosion Hazard: No explosion hazard
Reactivity: Hazardous reactions will not occur.

5.3 Advice for fire-fighting:

Use normal fire fighting protective equipment.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions :

General measures: Use personal protective equipment. Provide adequate ventilation.
See section 8 for additional information.

Protective equipment: Wear suitable protective clothing with eye protection, respirators and gloves, see section 8.

6.2 Environmental precautions:

Avoid discharge into waterways, sewers and soil. If spill enters water, contact local authorities.

6.3 Methods and material containment and cleaning up:

Method of cleaning up: Collect material in dry state if possible. Avoid generating dust. Recover product by vacuuming, shoveling or sweeping. Use a HEPA type filter on vacuum exhaust to prevent release of particulates into air.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Do not breathe dust. Avoid creating or spreading dust. Handle in accordance with good industrial hygiene procedures. Always wash hands immediately after handling product. Do not eat or drink in area where product is being used. Prolonged or repeated exposure to respirable silica can cause silicosis.



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7.2 Conditions for safe storage including any incompatibilities:

Store in a covered dry shaded area. Avoid all contact with water.

7.3 Specific end uses:

This product is intended for use only by professionals to color and harden and texture freshly-placed concrete surfaces.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control Parameters

NDA = No Data Available

Components of Mixture	ACGIH TLV	OSHA 8-Hour PEL TWA	OSHA PEL 8 hr	NIOSH TWA
Portland Cement	1 mg/m ³	15 mg/m ³	NDA	10 mg/m ³ total
Silica Sand, Crystalline Quartz	0.025 mg/m ³	(10mg/m ³) ÷ (SiO ₂ % + 2)	NDA	0.05 mg/m ³
Crystalline Quartz, Respirable Fraction	0.025 mg/m ³	50 µg/m ³	NDA	5 mg/m ³
Flyash, Coal Combustion Residues	NDA	NDA	NDA	NDA
Misc. iron/chromium oxide pigments, PNOR	3 mg/m ³	15 mg/m ³ total, 5 mg/m ³ dust	NDA	NDA
Titanium Dioxide pigment	10 mg/m ³	5 mg/m ³ as respirable dust	15 mg/m ³ total	NDA
Total Silica Dust	NDA	0.3 mg/m ³	NDA	10 mg/m ³

8.2 Exposure controls:

Avoid breathing dust. Wear a tight fitting respirator with particulate filters, P100 or N95.

Corrosive: Do not get into eyes or on skin.

Engineering measures: Use with adequate ventilation in work area. Keep worker exposure of airborne particulates below PEL & TLV limits in section 8.1, Provide easy access to eye wash station in work area.

8.3 Individual protective measures:

Eye/face protection: Wear tight fitting goggles or safety glasses with side shields to protect eyes.

Skin protection: Wear protective clothing, rubber apron or coat and neoprene or nitrile rubber gloves to protect skin.

Respiratory Protection: Wear a proper NIOSH approved particulate-type respirator, for example: N95 or P100.

Hygiene measures: Wash hands after exposure, Remove contaminated clothing, shower and wash with plenty of soap and water. Wash contaminated clothing prior to reuse.

Environmental exposure controls: Provide eye wash stations and emergency showers located near work area.



9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

Property-Test	Value/Result
a) pH	10-12 when wet, not applicable when dry
b) Color	various colors
c) Odor	no odor
d) Freezing/Melting Point	not applicable
e) Boiling Range	not applicable



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Property-Test (continued)	Value/Result (continued)
f) Flash Point	not applicable
g) Auto ignition Temperature	not applicable
h) Explosive Limits UEL	not applicable
i) Explosive Limits LEL	not applicable
j) Flammability (solid, gas)	not applicable
k) Vapor density vs air = 1.0	not applicable
l) Density	not applicable
m) Solubility in water	only admixtures are soluble
n) KOW Partition Coefficient	not applicable
o) Evaporation Rate	not applicable
p) VOC	0.0 g/L (0.0 lb/gal)
q) Specific Gravity, water = 1.0	2.5 to 3.5

10 STABILITY AND REACTIVITY

- 10.1 Reactivity:** When water is added, hardening occurs to make a solid mass.
- 10.2 Chemical stability:** Product reacts rapidly with strong acids causing heat evolution.
- 10.3 Possibility of hazardous reactions:** Hazardous reactions do not normally occur.
- 10.4 Conditions to avoid:** Avoid contact with strong acids and moisture
- 10.5 Incompatible materials:** Strong acids can react dangerously with product.
- 10.6 Hazardous decomposition products:** No hazardous decomposition products are known.

11 TOXICOLOGICAL INFORMATION

Components of Mixture	LD ₅₀ oral (rat)	LC ₅₀ Inhalation	LD ₅₀ dermal (rabbit)
Portland Cement	2000 mg/kg	NDA	NDA
Silica Sand, Crystalline Quartz	>2,500 mg/kg	NDA	NDA
Sand, Crystalline Quartz, Respirable Fraction	NDA	NDA	NDA
Flyash, Coal Combustion Residuals	>2,000 mg/kg	2.2 mg/L 1 hr	>2,000 mg/kg (skin)
Titanium Dioxide	12,000 mg/kg	>6.82 mg/L rat	10,000 mg/kg
Misc. iron/chromium oxide pigments, PNOR	NDA	NDA	NDA

Toxicological results of testing

- a) acute toxicity, Not classified as an acutely toxic material.
- b) skin corrosion/irritation, Wet cementitious products can cause serious skin irritation.
- c) serious eye damage/irritation, Wet or dry cementitious products can cause serious eye damage.
- d) respiratory or skin sensitization, Repeated exposure to respirable silica can cause serious delayed lung injury (silicosis).
- e) germ cell mutagenicity, Product does not cause germ cell mutagenicity.



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Toxicological results of testing: (continued)

- f) carcinogenicity by agency: Crystalline silica (respirable) in this product is identified by IARC, ACGIH, OSHA and NTP as a carcinogen or as a potential carcinogen. Titanium dioxide may be present in some formulations. Titanium Dioxide is classified by IARC as a class 2B carcinogen.
- g) reproductive toxicity, Product is not known to cause or contribute to reproductive toxicity.
- h) STOT-single exposure, Product can cause serious eye damage due to alkalinity and abrasiveness. Single exposure is not expected to cause carcinogenicity due to respirable silica.
- i) STOT-repeated exposure, Repeated/prolonged exposure to respirable silica can cause silicosis, a form of cancer. Repeated exposure to respirable silica can contribute to COPD. No chronic effects have been observed when respirable silica is maintained below limit levels.
- J) aspiration hazard, Product is not an aspiration hazard.

- 11.1 Inhalation:** Product dust may irritate throat and respiratory system and cause coughing.
- 11.2 Skin contact:** Product dust has an irritating effect on moist skin. Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals.
- 11.3 Eye contact:** Dust from mixture can cause permanent eye damage. Immediate first aid is required, followed by emergency medical attention.
- 11.4 Ingestion:** Is not likely to occur because of composition. Ingestion may cause severe irritation of the mouth esophagus and the gastrointestinal tract.
- 11.5 Specific effects:** Frequent inhalation over a long period of time increases the risk of developing lung disease.

12 ECOLOGICAL INFORMATION

Components of Mixture	Aquatic Toxicity Fish			Aquatic Toxicity Invertebrates		
	LC ₅₀	Species	Duration	EC ₅₀	Species	Duration
Portland Cement	NDA	NDA	NDA	350 mg/L	Daphnia magna	48 hr
Silica Sand, Crystalline Quartz	>10,000 mg/kg	Carp	72 hr	NDA	NDA	NDA
Silica Sand Quartz, respirable silica	NDA	NDA	NDA	NDA	NDA	NDA
Iron Oxides and/or Chrome III Oxide, PNOR	NDA	NDA	NDA	NDA	NDA	NDA
Titanium Dioxide	>1,000 mg/kg	Pimephales pr.	96 hr	>1,000 mg/L	Daphnia magna	48 hr

- 12.1 Ecotoxicity**
Ecotoxicity: This product is not expected to be hazardous to the environment.
- 12.2 Persistence and degradability:**
Degradability: This product reacts with water to form a solid mass that is not degradable.
- 12.3 Bioaccumulative Potential:**
Bioaccumulative Potential: No information is available on bioaccumulative potential.
- 12.4 Mobility in soil:**
Mobility: No information is available on mobility in soil.
- Results of PBT and vPvB assessment: Mixture is inorganic and is not relevant for PBT or vPvB assessment
- Other adverse affects: No other adverse effects are known.



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13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

GHS P501-Dispose of contents/container according to local/state/regional/federal regulations.

14 TRANSPORT INFORMATION

This product is not covered by international regulation of the transport of dangerous goods (IMDG, IATA, ADR, RID).

DOT: Not regulated

14.1 UN Number: Not regulated

14.2 UN proper shipping name: Not classified as dangerous goods under DOT and UN regulations.

14.3 Transport hazard class(es): Not regulated

14.4 Packing group: Not regulated

Packaging group: Not regulated

14.5 Environmental hazards

Marine pollutant: Not regulated

Environmentally hazardous substance: Not applicable

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code: Not regulated.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture.

OSHA HazCom 2012, 29 CFR 1910.1200 and regulation (EC) No 1272/2008 (CLP) of the European Parliament

15.2 Chemical Safety Assessment: Not required

For information on labeling go to section 2.

There are no TSCA 12b chemicals in this product.

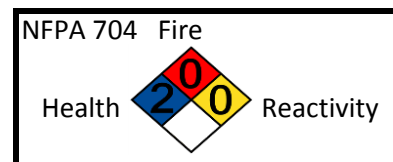
16 OTHER INFORMATION

Before using, read Scofield's Tech-Data Bulletin TD-1110 for this product, the complete package label and this SDS and Warranty.

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Wording of terms:

ACGIH	American Conference of Government Industrial Hygienists.
CAS #	Chemical Abstract Service, unique chemical identification
EINECS	European Inventory of Existing Commercial Chemical Substances (EU)
EC ₅₀	Effective Concentration that causes 50% mortality of population
GHS	Global Harmonization System, worldwide chemical safety program
LC ₅₀	Lethal Concentration that causes 50% mortality of population
LD ₅₀	Lethal Dose that causes 50% mortality of population



0 = lowest hazard, 4 = highest hazard



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Wording of terms: (continued)

- NFPA National Fire Protection Association
- NTP National Toxicology Program
- OSHA Occupational Safety & Health Administration
- PBT Persistent, Bioaccumulative and Toxic
- PEL Permissible Exposure Limit
- PNOR Particulates Not Otherwise Regulated
- RE Repeated Exposure
- SDS Safety Data Sheet (GHS replacement for MSDS)
- SE Single Exposure
- STOT Specific Target Organ Toxicity
- TLV Threshold Limit Value
- TSCA Toxic Substances Control Act
- TWA Time Weighted Average
- vPvB Very Persistent and very Bioaccumulative
- WHMIS Workplace Hazardous Materials Information System (Canada)

Hazardous Material Identification	
Health Hazard	2
Fire Hazard	0
Reactivity Hazard	0
Personal Protection	See sec. 8 PPE

0 = minimal hazard, 4 = extreme hazard

California Prop 65: WARNING! This product contains one or more chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

WHMIS Category: D2B, D2A

WHMIS Signal Word: **WARNING**

SDS Issue Date: July 7, 2015. Revised November 28, 2016 added SIKA COMPANY Trademark.

END OF SDS

LIMITED WARRANTY

Since no control is exercised over product use, L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality within manufacturing tolerances. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESS OR IMPLIED, NOW OR HEREAFTER MADE IS AUTHORIZED OR WARRANTED BY SCOFIELD, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Liability for breach of contract, negligence, or on any other legal basis is limited to the lesser of refund or replacement of defective materials. SCOFIELD WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING FOR DELAYS OR LOST PROFITS. Communication of this warranty and its limitations to end users is not the responsibility of Scofield, but should be communicated by those in direct contract with the end user. Any claim regarding product defect must be received in writing within one year from the date of manufacture. No claim will be considered without such written notice or after the specified time interval. The end user shall determine the suitability of the products for the intended use and assumes all risks and liability in connection therewith.