



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

CHROMIX® L Admixtures for Color-Conditioned® Concrete, 8830 Green L50

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: CHROMIX® L Admixtures for Color-Conditioned® Concrete, L50 Green

1.2 Relevant identified uses of product:

CHROMIX® L Admixtures for Color-Conditioned® Concrete are concentrated pigment dispersions designed to permanently color concrete. Scofield products are 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 #: (800) 800-9900

www.scofield.com

6533 Bandini Blvd, Los Angeles, CA 90040

Information Phone Number (323) 720-3000 M-F 8AM-5PM

4155 Scofield Road, Douglasville, GA 30134

Information Phone Number (770) 920-6000 M-F 8AM-5PM

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

2 HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture:

GHS-US Hazard classification

Skin irritant, STOT, SE, H313, Category 5

Eye irritant, STOT, SE, H320, Category 2

Human Health: Product can damage eyes. Avoid getting product into eyes. Product can irritate skin.

Environment: Product is not considered to be dangerous to the environment.

GHS Category Key

1 = Most Hazardous

5 = Least Hazardous

2.2 Label elements:

GHS Hazard (H) Statements

Acute toxicity

H313--May be harmful in contact with skin

H320--Causes eye irritation

Chronic Toxicity

Water dispersed chromium III oxide pigments have no known chronic effects or carcinogenicity.

GHS Precaution (P) Statements:

Prevention precautionary statements

P280--Wear protective gloves/eye protection

P284--In case of inadequate ventilation, wear respiratory protection

Response precautionary statements

P305+P351+P338--**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contacts if present and easy to do. Continue rinsing.



GHS Signal Word: **NONE**



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Response precautionary statements: (continued)

P337+P313--If eye irritation persists, get medical attention.

Disposal precautionary statements

P501--Dispose of contents/container in accordance with applicable local/state/regional/federal regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: No other hazards are known.

Refer to Section 16 for wording of terms.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Various Metal Oxide Pigments

3.2 Mixture:

Components of Mixture	CAS #	EINECS #	Weight %
Chromium III Oxide Pigment Green Cr ₂ O ₃	1308-38-9	215-160-9	50-70
Hexavalent Chromium, Cr ⁺⁶ (in any form)	18540-29-9	not available	<0.1%

The composition and exact percentages in this product 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 with plenty of clean water for 15 minutes. Remove contact lenses if easy to do. Open eyelids widely during flushing. If irritation persists, 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.

Ingestion: May cause irritation of mouth, throat, esophagus and gastrointestinal tract. Do not induce vomiting. Give large amounts of water. Call 911 or a POISON CENTER (800) 222-1222 immediately for first aid instructions.

4.2 Most important symptoms and effects both acute and delayed:

Eye contact can cause irritation. If irritation persists after rinsing eyes, take person to emergency room for treatment and bring these instructions (SDS) for doctor.

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

Refer to SECTION 11 for more detailed information on health effects and symptoms.

Primary routes of entry include: Eye Contact, Skin Contact, Ingestion

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 or explosion hazard: Product is not flammable and is not an explosion hazard.



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5.2 Special Hazards arising from the substance or mixture: (continued)

Reactivity: Hazardous reactions will not occur.
 Other Hazards: Spills can be slippery, exercise care to avoid slipping

5.3 Advice for fire-fighting: Use normal fire fighting equipment.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions :

General measures: Use personal protective equipment. See section 8 for additional information.
 Protective equipment: Wear suitable protective clothing with eye protection and gloves.

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: May be slippery. Use caution. Contain spill with absorbent materials or collect with a wet vacuum.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Always wash hands immediately after handling product. Do not eat or drink in area where product is being used.

7.2 Conditions for safe storage including any incompatibilities:

Do not allow product to freeze.

7.3 Specific end uses:

This product is intended for use only by professionals to integrally color new architectural concrete.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Components of Mixture, Formula	Exposure Limits TWA		
	ACGIH TLV	OSHA PEL 8hr	NIOSH TWA 8 hr
Chromium III Oxide Pigment Green Cr ₂ O ₃	*0.5 mg/m ³	*0.5 mg/m ³	not available
Hexavalent Chromium, Cr ⁺⁶	0.01 mg/m ³	5 µg/m ³	0.0002 mg/m ³

*as Cr



8.1 Control Parameters

Usually not required.

8.2 Exposure controls:

Engineering measures: Provide local exhaust and adequate ventilation in work area.

8.3 Individual protective measures:

Eye protection: Wear tight-fitting goggles or safety glasses to protect eyes.

Skin protection: Wear chemical resistant rubber gloves to protect hands.

Respiratory Protection: Is not normally required. If slurry dries, use a properly fitted respirator with particulate filters.

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 near work area.



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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

Property-Test	Value/Result
a) Physical State	thick liquid
b) pH	5 to 7
c) Color	green
d) Odor	low to no odor
e) Freezing/Melting Point	32 °F (0°C)
f) Boiling Range	212 °F (100 °C)
g) Flammability (solid, gas)	not flammable
h) Vapor Pressure	not applicable
i) Vapor density vs air = 1.0	not applicable
j) Density	not applicable
k) Solubility in water	dispersed pigment is not soluble, admixtures are soluble
m) KOW Partition Coefficient	not applicable
n) Evaporation Rate	not applicable
o) Viscosity	not applicable
p) VOC	< 50 g/L (<0.43 lb/gal)

9.2 Other information

Other data: Specific Gravity, water = 1.0 1.7 to 2.1

10 STABILITY AND REACTIVITY

10.1 Reactivity:	Not reactive
10.2 Chemical stability:	Product can react with strong acids.
10.3 Possibility of hazardous reactions:	Hazardous reactions do not normally occur.
10.4 Conditions to avoid:	Avoid contact with strong acids
10.5 Incompatible materials:	Strong acids
10.6 Hazardous decomposition products:	Pigment dispersion does not decompose under normal conditions.

11 TOXICOLOGICAL INFORMATION

Toxicological results of testing

Components of Mixture, Formula	LD ₅₀ (Rat oral)	LC ₅₀ Inhalation,	Irritation of skin/eyes or sensitizing
Chromium III Oxide	>5,000 mg/kg	>5.41 mg/L, 4 hr	Dermal skin, not sensitizing, guinea pig

- a) acute toxicity, Not classified as acutely toxic material.
- b) skin corrosion/irritation, Pigment dispersions can cause skin irritation from mechanical irritation.
- c) eye damage/irritation, Pigment dispersions can cause eye damage (as a mechanical irritant, do not rub eyes).
- d) respiratory or skin sensitization, Not classified as a respiratory sensitizer or skin sensitizer.



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- e) germ cell mutagenicity Product does not cause germ cell mutagenicity.
- f) carcinogenicity by agency: All components of this product, present at 0.1% or greater are not identified by ACGIH or OSHA as probable, possible or confirmed carcinogens.
- g) reproductive toxicity, Product does not cause or contribute to reproductive toxicity.
- h) STOT-single exposure, Product can cause serious eye damage due to abrasion and alkalinity.
- i) STOT-repeated exposure, There are no known chronic effects from exposure to liquid pigments. If pigment slurr dries, wear a properly fitted respirator with a particulate filter and avoid making dust. If ingested, do NOT induce vomiting. Product can be aspirated if vomiting occurs.
- J) aspiration hazard, If ingested, do NOT induce vomiting. Product can be aspirated if vomiting occurs.
- 11.1 Inhalation:** Product may irritate throat and respiratory system and cause coughing.
- 11.2 Skin contact:** Product may have an irritating effect on moist skin.
- 11.3 Eye contact:** Splashes from liquid pigment mixture can cause serious eye damage. Immediate first aid is required, followed by emergency medical attention.
- 11.4 Ingestion:** Ingestion may cause severe irritation of the mouth, esophagus and gastrointestinal tract.
- 11.5 Specific effects:** No other specific effects are known.

12 ECOLOGICAL INFORMATION

12.1 Toxicity:	Aquatic Toxicity Fish		
	Acute LC ₅₀	Species	Duration
Components of Mixture			
Chromium III Oxide	10,000 mg/L	Danio Rerio	96 hr

- Ecotoxicity: This product is not expected to be hazardous to the environment.
- 12.2 Persistence and degradability:**
- Degradability: Product 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 assessmen Mixture is inorganic and is not relevant for PBT or vPvB assessment.
- Other adverse affects: No other adverse effects are known.

13 DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods:**
- GHS P501-Dispose of contents/container according to applicable local/state/regional/federal regulations.

14 TRANSPORT INFORMATION

- This product is not covered by international regulation of the transport of dangerous goods.**
- DOT: Not regulated
- 14.1 UN Number:** Not regulated



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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 are 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 refer to section 2.

IARC Lists Titanium Dioxide as a 2B carcinogen.

16 OTHER INFORMATION

Before using, read Scofield Tech-Data Bulletin TD-8830 or TD-8815 for this product, the complete package label and this SDS and Warranty.

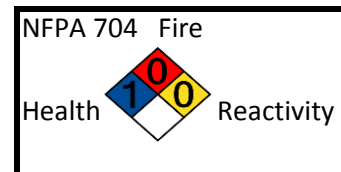
The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Wording of terms:

- ACGIH American Conference of Government Industrial Hygienists
- CAS No. Chemical Abstract Service
- CLP Classification, Labeling and Packaging, EC 1272/2008
- EC₀ Highest concentration that has no mortality of population
- EINECS European Inventory of Existing Commercial Chemical Substances (EU)
- GHS Global Harmonization System, worldwide chemical safety system
- IARC International Agency for Research on Cancer
- HazCom Hazard Communication, GHS US OSHA 29 CFR 1910.1200
- LC₀ Highest Concentration with no mortality of population
- LC₅₀ Lethal Concentration for population at 50% mortality
- LD₅₀ Lethal Dose for population at 50% mortality
- MARPOL International Convention for the Prevention of Pollution from Ships
- NFPA National Fire Protection Association
- NIOSH National Institute for Occupational Safety and Health
- OSHA Occupational Safety and Health Administration

Hazardous Material Information	
Health Hazard	1
Flammability Hazard	0
Physical Hazard	0
Personal Protective Equipment	See sec. 8 PPE

0=minimal hazard. 4 = extreme hazard



NFPA: 0 = low hazard, 4 = high hazard



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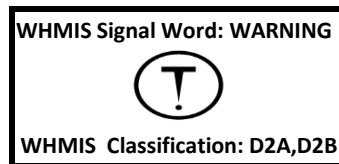
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Wording of terms: (continued)

PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Level
RE	Repeated Exposure
REACH	Registration, Evaluation, Authorization and Restrictions of Chemicals, EC/1907/2006
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
US DOT	United States Department of Transportation
VOC	Volatile Organic Compound
vPvB	Very Persistent and Very Bioaccumulative
WHMIS	Workplace Hazardous Materials Information System (Canada).

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.



The details in this document are based on our current knowledge and experience and are only for this product and only in regard to safety requirements.

SDS issue date: June 25, 2015. Revised June 10, 2016, L50 Green (Cr₂O₃) data. Now Green CHROMIX®-L has a separate SDS. Revised October 7, 2016, added SIKA COMPANY Trademark. Revised 02.17.17

END OF SDS

LIMITED WARRANTY

L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality and 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.