



Safety Data Sheet & Warranty

CHROMIX® L Admixtures for Color-Conditioned® Concrete, 8820, 8830, 8835 and 8710, including L10 Black, L20 Light Red, L25 Medium Red, L30 Yellow, & L40 White, and all mixed colors. Also includes SCOFIELD Scofield Integral Color Utility Grade Liquid, 8815, all colors.

5/29/2015 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 Names: CHROMIX® L Admixtures for Color-Conditioned® Concrete, 8820, 8830, 8835 & 8710, including all colors and SCOFIELD® Integral Color Utility Grade Liquid, 8815, all colors.

Chemical Name: Mixtures of pigments (iron oxides and/or titanium dioxide) with admixtures.

1.2 Relevant identified uses of product:

CHROMIX® L Admixtures for Color-Conditioned® Concrete, 8820, 8830, 8835 and 8710 (pails), all colors, and SCOFIELD® Color Utility Grade Liquid, 8815, all colors, are designed to permanently color concrete and other cementitious materials. 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

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 2B

Carcinogenicity, STOT, RE, H351, inhalation, IARC categc

Central nervous system damage, STOT, RE, H373, category 2

Human Health: Product can damage eyes by mechanical irritation. Avoid getting product into eyes.

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



d: v

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

H351--Suspected of causing cancer, RE, STOT, inhalation, IARC lists titanium dioxide as a category 2B possible carcinogen.

H373--May cause damage to central nervous system, STOT, RE, inhalation, category 2.

GHS Precaution (P) Statements:

Prevention precautionary statements

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

P284--Wear respiratory protection, if needed, see section 8

Response precautionary statements

P264--Wash after handling.

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

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

Disposal precautionary statements

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:

Various metal oxide pigments in water dispersions, may also contain admixture:

3.2 Mixture:

Components of Mixture, Formula	CAS #	EINECS #	Weight %
Iron Oxide Pigment Red, Fe ₂ O ₃	1309-37-1	215-168-2	0-70%
Iron Oxide Pigment Yellow, FeO·OH	51274-00-1	257-098-5	0-70%
Iron Oxide Pigment Black, Fe ₃ O ₄	1317-61-9	215-277-5	0-70%
Manganese (an impurity in black iron oxide)	7439-96-5	231-105-1	0-2%
Titanium Dioxide Pigment White, TiO ₂	13463-67-7	236-675-5	0-70%

The exact percentages in this composition and the components have been withheld 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, take person to emergency room/hospital and bring these instructions for doctor.

Inhalation: Normally not required for pigment dispersions. If exposed, move person to fresh air, make comfortable for breathing.

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 to drink. Call a POISON CONTROL CENTER (800) 222-1222 or 911 to obtain first aid information.

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 (this 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, or 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 Hazard: Not flammable

Explosion Hazard: No explosion hazard

Reactivity: Hazardous reactions will not occur.

Other Hazards: No special hazards are known.

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. Refer to section 8 for additional information.

Protective equipment: Wear suitable respiratory protection, if needed, and wear eye protection and use rubber gloves.

6.2 Environmental precautions:

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

6.3 Methods and material containment and cleaning up:

Use absorbent material such as sand or sawdust to contain spills. Use a wet vacuum for clean up. Put in a drum for disposal.

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:

Store product in shade. Black iron oxide, when dry, can start to oxidize at temperatures above 176 °F (80 °C) liberating heat.

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

8.1 Control Parameters

Components of Mixture, Formula	Dust Exposure Limits in Air		
	ACGIH TLV 8hr	OSHA PEL 8hr	NIOSH REL TWA
Iron Oxide Pigment Red, Fe ₂ O ₃	5 mg/m ³	10 mg/m ³	No Data Available
Iron Oxide Pigment Yellow, FeO·OH	5 mg/m ³	10 mg/m ³	No Data Available
Iron Oxide Pigment Black, Fe ₃ O ₄	5 mg/m ³	10 mg/m ³	No Data Available
Manganese (Impurity in Black Iron Ox)	0.2 mg/m ³	5 mg/m ³	No Data Available
Titanium Dioxide Pigment White, TiO ₂	10 mg/m ³	15 mg/m ³	No Data Available

Personal Protective Equipment



Respirator Selection: Mist Filter (only if needed)

8.2 Exposure controls:

Engineering measu Provide easy access to eye wash station in work area.

8.3 Individual protective measures:

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

Skin protection: Wear chemical resistant rubber gloves and rubber clothing to protect skin.

Respiratory Protection: Normally is not required. If mist is present, wear a proper mist filter respirator, such as 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 contr Provide eye wash stations and emergency showers near work area.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

Property-Test	Value/Result
a) pH	8-10
b) Color	various colors
c) Odor	no odor
d) Freezing/Melting Poir	not applicable
e) Boiling Range	not applicable
f) Flash Point	not applicable

g) Auto ignition Temperature	not applicable
h) Upper Explosive Limits UEL	not applicable
i) Lower Explosive Limits LEL	not applicable
j) Flammability (solid)	not flammable
k) Vapor Pressure	not applicable
l) Vapor density vs air = 1.0	not applicable
m) Density	density can vary with color
n) Solubility in water	very low (only admixture portion is soluble)
o) KOW Partition Coefficient	not applicable
p) Evaporation Rate	not applicable
q) Viscosity	not applicable
r) VOC	0.0 g/L 0.0 lb/gal
s) Specific Gravity, water = 1.0	1.5 to 2.5

9.2 Other information: No other information is available

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:	No hazardous decomposition products are known. Dry black iron oxide can start to decompose (via exothermic oxidation) if over 176 °F (80 °C).

11 TOXICOLOGICAL INFORMATION

Toxicological results of testing

Chemical Name	LD ₅₀ (Rat oral)	LC ₅₀ Inhalation	LC ₅₀ Other Exposure Route
Iron Oxide Pigment Red, Fe ₂ O ₃	>5,000 mg/kg	>210 mg/m ³ (rat) 2 weeks	50 mg, 7 days, rabbit, edema of eyes
Iron Oxide Pigment Yellow, FeO·OH	>10,000 mg/kg	195 mg/m ³ , 2 weeks duration, rat	Dermal, skin, not sensitizing guinea pig
Iron Oxide Pigment Black, Fe ₃ O ₄	>5,000 mg/kg	No Data Available	Slight or no skin irritation, rabbit
Manganese (impurity in black iron oxide)	>5,000 mg/kg	No Data Available	No Data Available
Titanium Dioxide Pigment White, TiO ₂	>5,000 mg/kg	6.82 mg/L, 4 hr, rat	No Data Available

a) acute toxicity,	Not classified as an acutely toxic material.
b) skin corrosion/irritation,	Pigment mixtures can cause skin irritation.
c) eye damage/irritation,	Pigment mixtures can cause eye damage (as a mechanical irritant). Do not rub eyes.
d) respiratory/skin sensitization:	Not classified as a respiratory sensitizer or skin sensitizer.
e) germ cell mutagenicity:	Product does not cause germ cell mutagenicity.
f) carcinogenicity by agency:	IARC lists titanium dioxide as a potential class 2B carcinogen.
g) reproductive toxicity:	Product does not cause or contribute to reproductive toxicity.
h) STOT-single exposure:	Product can cause eye damage due to abrasion.
i) STOT-repeated exposure:	Black iron oxide may contain manganese, which can cause central nervous system damage after repeated and prolonged exposures.
J) aspiration hazard,	Product is an aspiration hazard.
11.1 Inhalation:	Acute: Product may irritate throat and respiratory system and cause coughing. Chronic: Titanium dioxide, repeated inhalation, is reported by IARC to be a 2B carcinogen. Repeated inhalation of manganese (in black iron oxide) can cause central nervous system damage.

11.2 Skin contact: Product may have an irritating effect on skin.

11.3 Eye contact: Pigment mixtures can cause serious eye damage. Immediate first aid is required.

11.4 Ingestion: Ingestion may cause irritation of the mouth, esophagus and gastrointestinal tract.

11.5 Specific effect Frequent inhalation of dust 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 or *LC ₀	Species	Duration	EC ₅₀ or *EC ₀	Species	Duration
Iron Oxide Pigment Red	*50,000 mg/L	Danio rerio	96 hr	>100 mg/L	Daphnia magna	48 hr
Iron Oxide Pigment Yellow	*>10,000 mg/L	Danio rerio	96 hr	>100 mg/L	Daphnia magna	48 hr
Iron Oxide Pigment Black	*>10,000 mg/L	Danio rerio	96 hr	>10,000 mg/L	Daphnia magna	48 hr
Manganese (impurity in black iron oxide)	NDA	NDA	NDA	NDA	NDA	NDA
Titanium Dioxide Pigment White	>1,000 mg/L	Pimphales prom.	96 hr	>1,000 mg/L	Daphnia magna	48 hr

Ecotoxicity: This product is not expected to be hazardous to the environment. NDA = No Data Available

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 assess 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 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

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:

Before using, read & understand the appropriate Scofield Tech-Data Bulletin: CHROMIX® L Admixtures for Color-Conditioned Concrete TD-8830 (applies to all colors), or SCOFIELD Integral Color Utility Grade Liquid TD-8815 (applies to all colors), and the complete package label (for all colors), and this Safety Data Sheet (SDS) and Warranty.

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.

SARA 302 extremely hazardous substances, not listed

SARA Title III 311/312/313 listed as a hazardous substances

There are no chemicals in this product that are listed under TSCA 12b

Right to Know, regulated chemicals, MA, NJ, PA and RI

16: OTHER INFORMATION

Before using product, read Scofield's Tech Data Bulletin TD-8830 or TD`

Wording of terms:

ACGIH American Conference of Government Industrial Hygienists

CAS No. Chemical Abstract Service, unique identification code for chemicals

CLP Classification, Labeling and Packaging, EC 1272/2008

EC₀ Highest effective concentration that has no mortality of population

EC₅₀ Effective Concentration that causes 50% mortality of population

EINECS European Inventory of Existing Commercial Chemical Substances

GHS Global Harmonization System, worldwide chemical safety program

IARC International Agency for Research on Cancer

HazCom Hazard Communication, US OSHA GHS 29 CFR 1910.1200

LC₀ Highest Concentration with no mortality of population

LC₅₀ Lethal Concentration that causes 50% mortality of population

LD₅₀ Lethal Dose for a chemical that causes 50% mortality of population

MARPOI International Convention for the Prevention of Pollution from Ships

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

NLE No Limit Established

OSHA Occupational Safety and Health Administration

PBT Persistent, Bioaccumulative and Toxic

PEL Permissible Exposure Level

RE Repeated Exposure

REACH Registration, Evaluation, Authorization and Restrictions of Chemicals, EC/1907/2006

REL Recommended Exposure Limit

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).

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.

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

WHMIS Signal Word: **WARNING**



WHMIS Classification: **D2A**

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.

NFPA 704	Fire	
Health	1 0 0	Reactivity

0=low hazard, 4=high hazard

SDS issue date: May 29, 2015

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.