**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.


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:

<table>
<thead>
<tr>
<th>L. M. SCOFIELD Company</th>
<th>Scofield Phone #: (800) 800-9900</th>
<th><a href="http://www.scofield.com">www.scofield.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>6533 Bandini Blvd, Los Angeles, CA 90040</td>
<td>Information Phone Number (323) 720-3000</td>
<td>M-F 8AM-5PM</td>
</tr>
<tr>
<td>4155 Scofield Road, Douglasville, GA 30134</td>
<td>Information Phone Number (770) 920-6000</td>
<td>M-F 8AM-5PM</td>
</tr>
</tbody>
</table>

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 category 2B

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.

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:
3 COMPOSITION/INFORMATION ON INGREDIENTS

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

3.2 Mixture:

<table>
<thead>
<tr>
<th>Components of Mixture, Formula</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide Pigment Red, Fe₂O₃</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>0-70%</td>
</tr>
<tr>
<td>Iron Oxide Pigment Yellow, Fe₆O₇·OH</td>
<td>51274-00-1</td>
<td>257-098-5</td>
<td>0-70%</td>
</tr>
<tr>
<td>Iron Oxide Pigment Black, Fe₃O₄</td>
<td>1317-61-9</td>
<td>215-277-5</td>
<td>0-70%</td>
</tr>
<tr>
<td>Manganese (an impurity in black iron oxide)</td>
<td>7439-96-5</td>
<td>231-105-1</td>
<td>0-2%</td>
</tr>
<tr>
<td>Titanium Dioxide Pigment White, TiO₂</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>0-70%</td>
</tr>
</tbody>
</table>

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/PERSOAL PROTECTION
8.1 Control Parameters

<table>
<thead>
<tr>
<th>Components of Mixture, Formula</th>
<th>ACGIH TLV 8hr</th>
<th>OSHA PEL 8hr</th>
<th>NIOSH REL TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide Pigment Red, Fe₂O₃</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Iron Oxide Pigment Yellow, FeO·OH</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Iron Oxide Pigment Black, Fe₃O₄</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Manganese (Impurity in Black Iron Ox)</td>
<td>0.2 mg/m³</td>
<td>5 mg/m³</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Titanium Dioxide Pigment White, TiO₂</td>
<td>10 mg/m³</td>
<td>15 mg/m³</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

8.2 Exposure controls:
Engineering measures: 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 control: Provide eye wash stations and emergency showers near work area.

9 PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information of basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property-Test</th>
<th>Value/Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) pH</td>
<td>8-10</td>
</tr>
<tr>
<td>b) Color</td>
<td>various colors</td>
</tr>
<tr>
<td>c) Odor</td>
<td>no odor</td>
</tr>
<tr>
<td>d) Freezing/Melting Poin</td>
<td>not applicable</td>
</tr>
<tr>
<td>e) Boiling Range</td>
<td>not applicable</td>
</tr>
<tr>
<td>f) Flash Point</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD₅₀ (Rat oral)</th>
<th>LC₅₀ Inhalation</th>
<th>LC₅₀ Other Exposure Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide Pigment Red, Fe₂O₃</td>
<td>&gt;5,000 mg/kg</td>
<td>&gt;210 mg/m³ (rat) 2 weeks</td>
<td>50 mg, 7 days, rabbit, edema of eyes</td>
</tr>
<tr>
<td>Iron Oxide Pigment Yellow, FeO-OH</td>
<td>&gt;10,000 mg/kg</td>
<td>195 mg/m³, 2 weeks duration, rat</td>
<td>Dermal, skin, not sensitizing guinea pig</td>
</tr>
<tr>
<td>Iron Oxide Pigment Black, Fe₃O₄</td>
<td>&gt;5,000 mg/kg</td>
<td>No Data Available</td>
<td>Slight or no skin irritation, rabbit</td>
</tr>
<tr>
<td>Manganese (impurity in black iron oxide)</td>
<td>&gt;5,000 mg/kg</td>
<td>No Data Available</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Titanium Dioxide Pigment White, TiO₂</td>
<td>&gt;5,000 mg/kg</td>
<td>6.82 mg/L, 4 hr, rat</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

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

12.1 Toxicity:

<table>
<thead>
<tr>
<th>Components of Mixture</th>
<th>LC50 or *LC50</th>
<th>Species</th>
<th>Duration</th>
<th>EC50 or *EC50</th>
<th>Species</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide Pigment Red</td>
<td>*50,000 mg/L</td>
<td>Danio rerio</td>
<td>96 hr</td>
<td>&gt;100 mg/L</td>
<td>Daphnia magna</td>
<td>48 hr</td>
</tr>
<tr>
<td>Iron Oxide Pigment Yellow</td>
<td>&gt;10,000 mg/L</td>
<td>Danio rerio</td>
<td>96 hr</td>
<td>&gt;100 mg/L</td>
<td>Daphnia magna</td>
<td>48 hr</td>
</tr>
<tr>
<td>Iron Oxide Pigment Black</td>
<td>&gt;10,000 mg/L</td>
<td>Danio rerio</td>
<td>96 hr</td>
<td>&gt;10,000 mg/L</td>
<td>Daphnia magna</td>
<td>48 hr</td>
</tr>
<tr>
<td>Manganese (impurity in black iron oxide)</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>Titanium Dioxide Pigment White</td>
<td>&gt;1,000 mg/L</td>
<td>Pimphales prom.</td>
<td>96 hr</td>
<td>&gt;1,000 mg/L</td>
<td>Daphnia magna</td>
<td>48 hr</td>
</tr>
</tbody>
</table>

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 effects: 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.

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
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
MARPOL 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
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.
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.