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L. M. Scofield Company - A SIKA COMPANY

## CHROMIX® 1200 (P) Admixtures for Color-Conditioned® Concrete, SCOFIELD® Integral Color SG 7200, and SCOFIELD® Integral Color Utility Grade 7100

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® 1200 Admixtures for Color-Conditioned® Concrete; SCOFIELD® Integral Color SG 7200; and SCOFIELD® Integral Color Utility Grade 7100

**Chemical Name:** Mixtures of pigments (iron oxides and/or titanium dioxide and/or chromium III oxide) with pozzolans and admixtures.

#### 1.2 Relevant identified uses of product

CHROMIX® Admixtures for Color-Conditioned Concrete 1200, SCOFIELD® Integral Color SG 7200, SCOFIELD® Integral Color Utility Grade 7100 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, A SIKA COMPANY**

**Scofield Phone: (800) 800-9900**

[www.scofield.com](http://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

Product may contain respirable silica. Properly fitted dust type respirators can control respirable silica exposure.

Skin irritant, STOT, SE, H313, category 5

Eye irritant, STOT, SE, H320, category 2B

Respiratory irritant, STOT, H335, category 3

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

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

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

Environment: Product is not considered to be harmful 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.

H335--May cause respiratory irritation.

GHS Signal Word: **WARNING**

GHS Category Key  
1 = most hazardous  
5 = least hazardous



GHS Pictogram



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### Chronic Toxicity

H350--May cause cancer, STOT, lungs, RE, category 1A

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

### GHS Precautionary (P) Statements

P264--Wash after handling.

### Prevention precautionary statements

P102--Keep out of the reach of children.

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

P280--Wear eye protection and face protection.

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

### Response precautionary statements

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

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

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

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

### Disposal precautionary statements

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

### 3.2 Mixture

| Components of Mixture, Formulas                           | CAS #      | EINECS    | Weight % range        | Hazardous material statement                        |
|---|------------|-----------|-----------------------|---|
| Iron oxide pigment, black, Fe <sub>3</sub> O <sub>4</sub> | 1317-61-9  | 215-277-5 | 0 - 90%               | classified as non-hazardous, no specific data       |
| Iron oxide pigment, red, Fe <sub>2</sub> O <sub>3</sub>   | 1309-37-1  | 215-168-2 | 0 - 90%               | classified as non-hazardous, no specific data       |
| Iron oxide pigment, yellow, FeO(OH)                       | 51274-00-1 | 257-098-5 | 0 - 90%               | classified as non-hazardous, no specific data       |
| Titanium Dioxide, TiO <sub>2</sub>                        | 13463-67-7 | 236-675-5 | 0 - 90%               | Titanium dioxide is an IARC Class 2B carcinogen.    |
| Chromium III Oxide, Cr <sub>2</sub> O <sub>3</sub>        | 1308-38-9  | 215-160-9 | 0 - 90%               | No known significant effects or critical hazards.   |
| Flyash, Coal Combustion Residuals                         | 68131-74-8 | 931-322-8 | 5-50%                 | No known significant effects or critical hazards.   |
| Crystalline silica from flyash                            | 14808-60-7 | 238-878-4 | <1% respirable silica | Wear a dust filter type respirator to control dust. |

The exact percentages in this composition and the components have been withheld as confidential business information.



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### **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, take person to emergency room/hospital and bring these instructions for doctor. Continue flushing during transport to emergency room/hospital.

Provide easy access to eye wash stations 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: If swallowed, call 911 or a Poison Center 1 (800) 222-1222 for instructions on first aid treatment.

#### **4.2 Most important symptoms and effects both acute and delayed:**

Eye contact with product can cause irritation. If irritation persists after rinsing eye(s), take person to emergency room.

Repeated inhalation of respirable silica over long periods of time increases the risk of developing lung disease (silicosis).

#### **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 under normal conditions.

Explosion Hazard: Product is not combustible.

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. Refer to Section 8 for more information

Protective equipment: Wear suitable eye protection and if ventilation is not adequate wear a particulate respirator.

#### **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:**

Method of cleaning up: Avoid generating dust. Use a vacuum with a HEPA filtered exhaust or clean up with broom & shovel.



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### 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.

#### 7.2 Conditions for safe storage including any incompatibilities:

Store product in a dry shaded area.

#### 7.3 Specific end uses:

This product is intended for use only by professionals to provide integral and permanent color for new concrete.

### 8 EXPOSURE CONTROL/PERSONAL PROTECTION

| 8.1 Control Parameters                                    | Exposure Limits in Air      |   |                              |
|---|-----------------------------|---|------------------------------|
|   | ACGIH TLV 8hr               | OSHA PEL 8 hour PEL TWA   | NIOSH REL (TWA)              |
| Components of Mixture, Formulas                           |                             |   |                              |
| Iron oxide pigment, black, Fe <sub>3</sub> O <sub>4</sub> | not known                   | No exposure limit value is known                                | not known                    |
| Iron oxide pigment, red, Fe <sub>2</sub> O <sub>3</sub>   | not known                   | No exposure limit value is known                                | not known                    |
| Iron oxide pigment, yellow, FeO(OH)                       | not known                   | No exposure limit value is known                                | not known                    |
| Titanium Dioxide, TiO <sub>2</sub>                        | 10 mg/m <sup>3</sup>        | 5 mg/m <sup>3</sup> respirable dust, 15 mg/m <sup>3</sup> total | 2.4 mg/m <sup>3</sup> (fine) |
| Chromium III Oxide, Cr <sub>2</sub> O <sub>3</sub>        | 0.5 mg/m <sup>3</sup> as Cr | 0.5 mg/m <sup>3</sup> as Cr                                     | not listed                   |
| Flyash, Coal Combustion Residuals                         | not applicable              | not applicable  | not applicable               |
| Crystalline silica from flyash (respirable only)          | 0.025 mg/kg                 | 50 µg/m <sup>3</sup> 8 hours                                    | 0.05 mg/m <sup>3</sup>       |

#### 8.2 Exposure controls:

Engineering measures: Use only with adequate ventilation. Use local exhaust ventilation or other engineering controls to keep exposure to airborne particulates below recommended limits.

#### 8.3 Individual protective measures:

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

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

Respiratory Protection: If dust level exceeds the OSHA PEL or other limit, wear a proper particulate respirator, 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 near work area.

#### Personal Protective Equipment



Respirator selection, particulate, N95,P100



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information of basic physical and chemical properties

| Property-Test                    | Value/Result           |
|----------------------------------|------------------------|
| a) pH                            | not applicable         |
| b) Color                         | variable               |
| c) Flash Point                   | will not flash         |
| d) Auto ignition Temperature     | will not autoignite    |
| e) Solubility in water           | low water solubility   |
| f) VOC                           | 0.0 g/L ( 0.0 lb./gal) |
| g) Specific Gravity, water = 1.0 | 2.8 to 4.5             |

#### 9.2 Other information: No other information is available

### 10 STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>10.1 Reactivity:</b>                         | Not reactive   |
| <b>10.2 Chemical stability:</b>                 | Product is stable under most common conditions   |
| <b>10.3 Possibility of hazardous reactions:</b> | Hazardous reactions do not normally occur.   |
| <b>10.4 Conditions to avoid:</b>                | Avoid dust formation. No other conditions to avoid are known.  |
| <b>10.5 Incompatible materials:</b>             | Avoid strong oxidizers/acids. No other incompatible materials are known.   |
| <b>10.6 Hazardous decomposition products:</b>   | No hazardous decomposition products are known.<br>Black iron oxide can start to decompose at 176 °F(80 °C) producing heat. |

### 11 TOXICOLOGICAL INFORMATION

#### Toxicological results of testing:

| Chemical Name   | LD <sub>50</sub> rat oral | LC <sub>50</sub> Inhalation or water test (fish) | LC <sub>50</sub> Other Exposure Route                      |
|---|---------------------------|--|--|
| Iron oxide pigment, black, Fe <sub>3</sub> O <sub>4</sub> | >5,000 mg/kg              | Rat Male>185.6 mg/m <sup>3</sup> 2 weeks 6hr/day | no data available  |
| Iron oxide pigment, red, Fe <sub>2</sub> O <sub>3</sub>   | >5,000 mg/kg              | Rat Inhalation >210 mg/m <sup>3</sup> 2 weeks    | Acute EC <sub>0</sub> >10,000 mg/l fresh water Danio rerio |
| Iron oxide pigment, yellow, FeO(OH)                       | >10,000 mg/kg             | Rat Inhalation >195 mg/m <sup>3</sup> 2weeks     | Acute EC <sub>50</sub> >100 mg/l fresh water Daphnia magna |
| Titanium Dioxide, TiO <sub>2</sub>                        | 12,000 mg/kg              | 10,000 mg/kg rabbit dermal                       | >6.82 mg/L 4 hour rat inhalation                           |
| Chromium III Oxide, Cr <sub>2</sub> O <sub>3</sub>        | 5,000 mg/kg               | >5.41 mg/l 4 hours rat                           | 10,000 mg/L Danio rerio 96 hours                           |
| Flyash, Coal Combustion Residuals                         | >2000 mg/kg               | >2.2 mg/L, 1 hours rat                           | no data available  |
| Crystalline silica from flyash, <1% respirable            | 22,500 mg/kg              | no data available                                | no data available  |



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- Toxicity:**
- a) acute toxicity, Not classified as an acutely toxic material.
  - b) skin corrosion/irritation, Some product mixtures can cause skin irritation.
  - c) eye damage/irritation, Product 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.
  - e) germ cell mutagenicity, Product does not cause germ cell mutagenicity.
  - f) carcinogenicity by agency: National Toxicity Program (NTP) status: Crystalline silica is a known human carcinogen. IARC lists Titanium Dioxide as a class 2B carcinogen. OSHA lists respirable silica as a carcinogen. New maximum allowed PEL is 50 µg/m<sup>3</sup>.
  - g) reproductive toxicity, Product does not cause or contribute to reproductive toxicity.
  - h) STOT-single exposure, Product can cause eye damage due to abrasion and irritation.
  - i) STOT-repeated exposure, Product dust can cause silicosis (lung injury) after repeated exposures if not protected.
  - J) aspiration hazard, Product is not an aspiration hazard.
- 11.1 Inhalation:** Acute: Product dust can irritate throat and respiratory system and cause coughing.  
Chronic: Product contains <1% respirable silica. Repeated exposure without respiratory protection can cause cancer (silicosis)
- 11.2 Skin contact:** Product may have an irritating effect on skin.
- 11.3 Eye contact:** Product can cause serious eye damage. Immediate first aid is required for eye contact.
- 11.4 Ingestion:** Product ingestion may cause irritation of the mouth, esophagus and gastrointestinal tract.
- 11.5 Specific effects:** 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 <sub>50</sub> or *LC <sub>0</sub> | Species           | Duration          | EC <sub>50</sub> or *EC <sub>0</sub> | Species        | Duration       |
| Iron Oxide Pigments, black                     | *LC <sub>0</sub> >10,000mg/l         | Danio rerio       | 96 hours          | >10,000 mg/L                         | Daphnia magna  | 48 hours       |
| Iron Oxide Pigments, red                       | *LC <sub>0</sub> >50,000 mg/l        | Danio rerio       | 96 hours          | >100 mg/L                            | Daphnia magna  | 48 hours       |
| Iron Oxide Pigments, yellow                    | *LC <sub>0</sub> >10,000 mg/l        | Danio rerio       | 96 hours          | >100 mg/L                            | Daphnia magna  | 48 hours       |
| Titanium Dioxide Pigment                       | >1,000 mg/L                          | Pimphales prom.   | 96 hours          | >1000 mg/L                           | Daphnia magna  | 48 hours       |
| Chromium III Oxide Pigment                     | >10,000 mg/L                         | rat inhalation    | 96 hr.            | No data available                    | No data avail. | No data avail. |
| Flyash, Coal Combustion Residuals              | *5,000 mg/kg                         | Danio rerio       | 96 hours          | 2000 mg/L                            | Daphnia magna  | 24 hours       |
| Crystalline silica from flyash, <1% respirable | 500 mg/kg                            | no data available | no data available | No data available                    | No data avail. | No data avail. |



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|  |   |
|--|---|
| <b>12.1 Ecotoxicity</b>                    | These products are not expected to be hazardous to the aquatic environment. |
| <b>12.2 Persistence and degradability:</b> |   |
| Degradability:                             | These products are inorganic and are not degradable or biodegradable        |
| <b>12.3 Bio accumulative Potential:</b>    |   |
| Bio accumulative Potential                 | No information is available on bio accumulative potential.                  |
| <b>12.4 Mobility in soil:</b>              |   |
| Mobility:                                  | No information is available on mobility in soil.                            |
| Results of PBT and vPvB assessment:        | Mixture is mostly 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 (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 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.

There are no TSCA 12b chemicals in this product.





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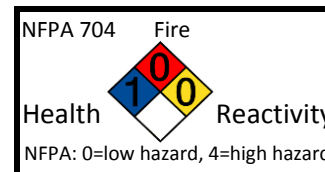
**16 OTHER INFORMATION**

**Wording of terms:**

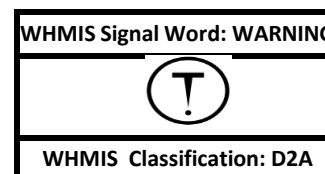
|                  |   |
|------------------|---|
| ACGIH            | American Conference of Government Industrial Hygienists                             |
| CAS              | Chemical Abstract Service, unique identification code for chemicals                 |
| CERCLA           | Comprehensive Environmental Response, Compensation and Liability Act                |
| CLP              | Classification, Labeling and Packaging, EC 1272/2008                                |
| EC <sub>0</sub>  | Highest effective concentration that has no mortality of population                 |
| EC <sub>50</sub> | 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                                  |
| LC <sub>0</sub>  | Highest Concentration with no mortality of population                               |
| LC <sub>50</sub> | Lethal Concentration that causes 50% mortality of pop                               |
| LD <sub>50</sub> | Lethal Dose for a chemical that causes 50% mortality of population                  |
| MARPOL           | International Convention for the Prevention of Pollution from Ships                 |
| NFPA             | National Fire Prevention Association  |
| NIOSH            | National Institute for Occupational Safety and Health                               |
| OSHA             | Occupational Safety and Health Administration                                       |
| PBT              | Persistent, Bio accumulative and Toxic  |
| PEL              | Permissible Exposure Level  |
| RCRA             | Resource Conservation and Recovery Act  |
| 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   |
| VOC              | Volatile Organic Compound   |
| vPvB             | Very Persistent and Very Bioaccumulative  |
| WHMIS            | Workplace Hazardous Materials Information System (Canada)                           |

| 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



**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.**







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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.

Before using read the applicable SCOFIELD® Tech-Data Bulletin for: CHROMIX®(P) Admixtures for Color-Conditioned Concrete TD-1200; or SCOFIELD Integral Color, SG 7200; or SCOFIELD Integral Color Utility Grade, 7100, and this complete SDS.

SCOFIELD Tech-Data Bulletins and this SDS are available at: [www.scofield.com](http://www.scofield.com)

SDS Issue date: January 15, 2015. Updated to include new GHS limit on respirable silica and SIKA trademark, Nov. 28, 2016.

**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.