



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

Safety Data Sheet & Warranty

CHROMIX® G - 8410 Admixtures for Color-Conditioned® Concrete

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® G Admixtures for Color-Conditioned® Concrete

Chemical Name: Concentrated and granulated iron oxide pigments used as colorants for architectural colored concrete.

Base colors available include: CHROMIX® G10 black, CHROMIX® G20 light red, CHROMIX® G25 medium red and CHROMIX® G30 yellow that are available in over 700 color formulations using CHROMIX-IT and hundreds of custom packaged colors.

1.2 Relevant identified uses of product: CHROMIX®G Admixtures for Color Conditioned® Concrete are permanent colors for all types of colored concrete, including slabs, floors, walls, sidewalks and any other concrete that is batch mixed. Scofield products are intended for use only by professionals.

1.3 Details of the supplier of the safety data sheet:

L. M. SCOFIELD Company, A SIKA COMPANY

6533 Bandini Blvd, Los Angeles, CA 90040

4155 Scofield Road, Douglasville, GA 30134

Scofield Phone #: (800) 800-9900

www.scofield.com

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

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 is not considered to be hazardous under OSHA 29 CFR 1910.1200.

Skin irritant, STOT, SE, H313, category 5

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

Respiratory irritant, STOT, H335, category 3

GHS Signal Word: NONE

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.

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

No chronic toxicity is known.



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

Safety Data Sheet & Warranty

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 Hazards Not Otherwise Classified (HNOC): No other hazards are known.

Refer to Section 16 for wording of terms.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main Constituent:

Various iron oxide pigments or mixtures of iron oxide pigments,

3.2 Mixture:

| Mixture Components, Formulas | C.I. Pigment # | CAS # | EINECS # | Weight % | Hazardous Material Statement |
|---|----------------|------------|-----------|----------|-------------------------------|
| Iron oxide pigment, black, Fe ₃ O ₄ | Black 11 | 1317-61-9 | 215-277-5 | 0 - 100% | classified non-hazardous, NSD |
| Iron oxide pigment, red, Fe ₂ O ₃ | Red 101 | 1309-37-1 | 215-168-2 | 0 - 100% | classified non-hazardous, NSD |
| Iron oxide pigment, yellow, FeO(OH) | Yellow 42 | 51274-00-1 | 257-098-5 | 0 - 100% | classified non-hazardous, NSD |

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

NSD = No Specific Data

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, continue flushing then take person to emergency room and bring these instructions for doctor.

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 rinse mouth, call 911 or a Poison Center 1 (800) 222-1222 for instructions on first aid treatment.



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

Safety Data Sheet & Warranty

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.

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: None, does not form combustible dust concentrations in air.

Reactivity: Hazardous reactions will not occur.

5.3 Advice for fire fighting: Use fire-fighting equipment that is suitable for surrounding fire.

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.

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 away from sources of heat. Black iron oxide can start to oxidize at temperatures above 176 °F (80 °C) which causes an exothermic reaction, generating additional heat. Store in a cool area away from combustibles.

7.3 Specific end uses:

This product is intended for use only by professionals to permanently color architectural batch-mixed concrete of all types.


Safety Data Sheet & Warranty

8 EXPOSURE CONTROL/PERSONAL PROTECTION

| 8.1 Control Parameters | Exposure Limits in Air | | |
|---|-------------------------------|-------------------------------|-------------------------------|
| Components of Mixture, Formula | ACGIH TLV 8hr | OSHA PEL 8 hour PEL TWA | NIOSH REL (TWA) |
| Iron oxide pigment, black, Fe ₃ O ₄ | No exposure limit established | No exposure limit established | No exposure limit established |
| Iron oxide pigment, red, Fe ₂ O ₃ | No exposure limit established | No exposure limit established | No exposure limit established |
| Iron oxide pigment, yellow, FeO(OH) | No exposure limit established | No exposure limit established | No exposure limit established |

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.

Personal Protective Equipment, PPE



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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

| Property-Test | Value/Result |
|---|---|
| a) pH | pH = 4 to 10 in water (5% w/w slurry) |
| b) Color | variable, black, red or yellow or mixtures of any combination |
| c) Flash Point | will not flash |
| d) Auto ignition Temperature* | will not autoignite. *See section 9.2 re: Black Iron Oxide |
| e) Upper-Lower Explosive Limits UEL,LEL | not applicable |
| f) Bulk Density | 300-1000 kg/m ³ |
| g) Solubility in water | very low solubility in water |
| h) VOC | 0.0 g/L (0.0 lb./gal) |
| i) Specific Gravity, water = 1.0 | 4.0 to 5.0 |

9.2 Other information:
 *Black iron oxide can start to decompose at 176 °F(80 °C) producing heat (exotherm). Store away from combustibles and all sources of heat.

Safety Data Sheet & Warranty

10 STABILITY AND REACTIVITY

| | |
|---|--|
| 10.1 Reactivity: | Not reactive |
| 10.2 Chemical stability: | Product is stable under most common conditions |
| 10.3 Possibility of hazardous reactions: | Hazardous reactions do not normally occur, refer to sec. 9.2 exception. |
| 10.4 Conditions to avoid: | Avoid dust formation. No other conditions to avoid are known. |
| 10.5 Incompatible materials: | Avoid strong oxidizers/acids. No other incompatible materials are known. |
| 10.6 Hazardous decomposition products: | No hazardous decomposition products are known. |

11 TOXICOLOGICAL INFORMATION

Toxicological results of testing:

| Chemical Name | LD ₅₀ rat oral | Sub-Acute LC ₅₀ Inhalation Exposure | Other Exposure Route |
|----------------------------|---------------------------|--|---|
| Iron oxide pigment, black | *>5,000 mg/kg | Rat Male >185.6 mg/m ³ 2 wks 6hr/d | Non-irritating non-sensitizing rabbit skin/eyes |
| Iron oxide pigment, red | *>5,000 mg/kg | No specific data available | No significant effects or critical hazards |
| Iron oxide pigment, yellow | *>5000 mg/kg | No specific data available | *Non-irritating skin and eyes |

* test results on an analogous product

- 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: Non-carcinogenic
- 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 does not cause lung injury or other chronic condition.
- 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: No chronic toxicity is known.

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: No known significant effects or critical hazards are known to occur due to ingestion.

11.5 Specific effects: No specific health effects are known.



BUILDING TRUST



L. M. Scofield Company - A SIKKA COMPANY

Safety Data Sheet & Warranty

12 ECOLOGICAL INFORMATION

| 12.1 Toxicity | Aquatic toxicity fish | | | Aquatic toxicity invertebrates | | |
|-----------------------------|--|----------------|----------|--------------------------------------|---------------|----------|
| | Acute LC ₅₀ or *LC ₀ | Species | Duration | EC ₅₀ or *EC ₀ | Species | Duration |
| Components of Mixture | | | | | | |
| Iron Oxide Pigments, black | LC ₀ >10,000mg/L | Danio rerio | 96 hours | >10,000 mg/L | Daphnia magna | 48 hours |
| Iron Oxide Pigments, red | LC ₅₀ >1,000 mg/L | Leuciscus idus | 48 hours | >100 mg/L | Daphnia magna | 48 hours |
| Iron Oxide Pigments, yellow | NDA | NDA | NDA | >1,000 mg/L | Daphnia magna | 48 hours |

Ecotoxicity These products are not expected to be hazardous to the aquatic environment. NDA = No Data Available

12.2 Persistence and degradability:

Degradability: These products are inorganic and are not degradable or biodegradable

12.3 Bio accumulative Potential:

Bio accumulative 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.

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)

US 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.

Safety Data Sheet & Warranty

15 REGULATORY INFORMATION

| | | |
|---|--|------|
| SARA 311/312 | None | |
| SARA Title III Section 302, Extremely Hazardous Substances | None | |
| SARA Title III Section 313, Toxic Chemicals | manganese compound in black pigment only | 1-3% |
| US EPA CERCLA Hazardous Substances (40 CFR 302.4) | None | |

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: manganese compound RTK States:MA-S ,MA extra HS, NJ-HS, PA-HS 2%

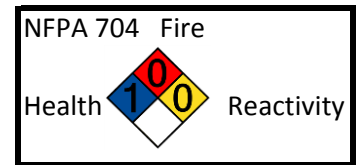
For information on labeling refer to section 2.

There are no TSCA 12b chemicals in this product

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 ₀ | Highest effective concentration that has no mortality of population |
| EC ₅₀ | 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 ₀ | Highest Concentration with no mortality of population |
| LC ₅₀ | Lethal Concentration that causes 50% mortality of population |
| LD ₅₀ | 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 |



NFPA: 0=low hazard, 4=high hazard

| 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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Safety Data Sheet & Warranty

Wording of terms: (continued)

- 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
- vPvB Very Persistent and Very Bioaccumulative
- WHMIS Workplace Hazardous Materials Information System (Canada).

| |
|--|
| <p>WHMIS Signal Word: none</p> <p>WHMIS Classification: none</p> |
|--|

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: September 21, 2016.

Before using read the complete package label, SCOFIELD Tech-Data TD-8410 and all of this Safety Data Sheet (SDS).

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.