



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

SCOFIELD® Formula One™ SG - 1810

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: SCOFIELD® Formula One™ SG - 1810

Chemical Name: Sodium silicate in water solution

1.2 Relevant identified uses of product: SCOFIELD Formula One SG - 1810 is a chemical hardener formulated for use on non-architectural concrete floors and slabs.

1.3 Details of the supplier of the safety data sheet:

L. M. SCOFIELD Company **SCOFIELD Phone Number (800) 800-9900** www.scofield.com
6533 Bandini Blvd, Los Angeles, CA 90040 Information Phone Number (323) 720-3000
4155 Scofield Road, Douglasville, GA 30134 Information Phone Number (770) 920-6000

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

2 HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture:

Human Health: OSHA 29 CFR 1900.1200 GHS and EC 1272/2008 CLP

GHS Hazard (H) Statements

Corrosive to metals, H290, Category 1

Skin irritation, SE, H315, Category 2

Serious eye irritation, SE, H319, Category 2A

GHS Category Key

1 = Most Hazardous

5 = Least Hazardous

2.2 Label elements:

GHS Hazard (H) Statements

Acute Toxicity

H290--May be corrosive to metal

H315-- Causes skin irritation

H319--Causes serious eye irritation

Chronic Toxicity

No chronic effects are known.

GHS Precautionary Statements

Prevention Precautionary (P) Statements

P102--Keep out of the reach of children.

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

P264--Wash skin thoroughly after handling

P280--Wear eye protection, safety glasses or tight fitting goggles.



GHS Pictograms

GHS Signal Word: **WARNING**



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Response Precautionary (P) Statements

P301+P310--**IF SWALLOWED**: Immediately call 911 or a POISON CENTER (800) 222-1222

P303+P361+P338--**IF ON SKIN (or hair)**: Remove/Take Off immediately all contaminated clothing. Rinse skin with plenty of water/shower.

P305+P351+P338--**IF IN EYES**: Rinse cautiously with water for at least 5 minutes, Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313--If eye irritation persists: Get medical advice/attention, call 911 or a POISON CENTER (800) 222-1222.

Disposal Statement

P501--Dispose of contents/container in accordance with local, state or federal hazardous material regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: none

Refer to section 16 for wording of terms.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main Constituent: Sodium Silicate

3.2 Mixture: This product is a solution of sodium silicate in water.

| Components of Mixture | CAS # | EINECS # | Weight % |
|-----------------------|-----------|-----------|----------|
| Sodium Silicate | 1344-09-8 | 215-687-4 | 10 to 40 |

The exact percentages of components in this composition have been withheld as a trade secret (CBI).

4 FIRST AID MEASURES

4.1 Description of first aid measures:

Eye Contact : Do not rub eye(s). Immediately flush with plenty of clean water for 15 minutes. Remove any contact lenses and open eyelids widely during flushing. If irritation persists, transport person to hospital emergency room and bring these instructions for doctor. Provide easy access to eye wash stations close to work area.

Inhalation: If ventilation is inadequate, wear a tight-fitting respirator equipped with mist (particulate) filters.

Skin Contact: May result in mild skin irritation, wash skin with soap and water.

Ingestion: If ingested, rinse mouth with water and give plenty of water to drink only if person is conscious and alert.

Obtain immediate medical attention for ingestion and bring this SDS to the hospital emergency room.

4.2 Most important symptoms and effects both acute and delayed:

Hazards: Serious eye irritant.

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: Eye contact, splashing into eye(s), inhalation, skin contact and ingestion.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media: Use any extinguishing media suitable for surrounding fire. Product is not combustible.

Non suitable extinguishing media: None



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5.2 Special Hazards arising from the substance or mixture:

Fire hazard: Product is not combustible.

Explosion hazard: Product is not an explosion hazard.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3 Advice for firefighting:

Firefighting protection: Use normal individual fire protective equipment and fight fire from a distance.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions :

General measures: Use personal protective equipment. Ensure adequate ventilation. Product can become very slippery during application procedure. Take extra care to avoid slipping and falling.

See section 8 PPE for additional information.

Protective equipment: Wear suitable protective clothing with eye protection, respiratory 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:

Have spill containment materials available. Soak up liquid with absorbent materials and then shovel the absorbed material into a hazmat drum for disposal. A wet vacuum can be used to collect fluid material for disposal as a liquid.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling: Handle in accordance with good industrial hygiene procedures. Always wash hands immediately after handling this product. Do not eat or drink in areas where product is being used.

7.2 Conditions for safe storage including any incompatibilities: Store in a dry cool area. Keep containers closed until used. Do not allow product to freeze. Product may not be recoverable after freezing.

7.3 Specific end uses: See section 1.2 for use information.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

| Chemical Name | ACGIH TLV | OSHA PEL 8hr |
|-----------------|-----------------|-----------------|
| Sodium Silicate | not established | not established |

8.2 Exposure controls:

Personal Protective Equipment Symbols:

Engineering measures: Adequate room ventilation is required.

Personal protection: Have an eye wash station and safety shower near work area and within easy access.





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8.2 Exposure controls: (continued)

Respiratory equipment: Is not normally required. If needed, wear a mist filter type respirator, refer to OSHA 1910.134.

Hand protection: Wear chemical resistant gloves, such as neoprene or nitrile rubber.

Eye protection: Wear a face shield or safety glasses or tight-fitting goggles.

Skin protection: Wear protective clothing, such as a rubber apron or rubber coat and boots.

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: Apply absorbent materials to spills to absorb liquid. Handle absorbed material according to applicable local/state or federal waste requirements, refer to section 13.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of basic physical and chemical properties

| | Property/Parameter | Result/Value |
|----|------------------------------|----------------------------------------------|
| a) | Appearance | Medium Viscosity Liquid |
| b) | pH | 10.5 to 12.5 |
| c) | Color | clear, colorless |
| d) | Odor | no significant odor |
| e) | Freezing/Melting Point | 30 °F (-1 °C) |
| f) | Boiling Range | 212 °F (100 °C) |
| g) | Flash Point | Will not flash |
| h) | Auto Ignition Temperature | Not applicable |
| i) | Explosive Limits UEL | Not applicable |
| j) | Explosive Limits LEL | Not applicable |
| k) | Flammability (solid, gas) | Non-flammable |
| l) | Vapor Pressure | Not applicable |
| m) | Vapor density vs. air = 1.0 | Not applicable |
| n) | Density, Sp. Gr. water = 1.0 | 1.20 to 1.35 |
| o) | Solubility in water | miscible in all proportions at 25 °C (77 °F) |
| p) | Evaporation Rate | Similar to water |
| q) | Viscosity | More viscous than water |
| r) | VOC | 0.0 g/L (0.0 lb/gal) |

9.2 Other information

Other data: Not relevant



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10 STABILITY AND REACTIVITY

- 10.1 Reactivity:** Stable under normal temperatures and conditions.
- 10.2 Chemical stability:** Stable under normal temperatures and conditions.
- 10.3 Possibility of hazardous reactions:** Aluminum can be attacked by product causing evolution of hydrogen gas.
- 10.4 Conditions to avoid:** Do not allow product to freeze. Product may not be recoverable after freezing.
- 10.5 Incompatible materials:** Avoid contact with strong acids. Aluminum contact may cause hydrogen to be evolved.
- 10.6 Hazardous decomposition products:** Hydrogen gas can form explosive mixtures with air.

11 TOXICOLOGICAL INFORMATION

| Chemical Name | LD ₅₀ Oral | LD ₅₀ Dermal |
|--------------------------|-----------------------|-------------------------|
| Sodium Silicate Solution | 1153 mg/kg (rat) | 4640 mg/kg (rabbit) |

11.1 Principal Routes of Entry

Ingestion: Harmful if swallowed, causes chemical burns to mouth, throat and gastrointestinal system.

11.2 Skin contact: Repeated contact with skin does not cause allergic reactions in sensitive individuals.

11.3 Inhalation: Causes irritation of respiratory tract.

11.4 Eye contact: Eye contact may cause severe damage.

11.5 Specific effects: Skin irritation can occur. Repeated exposure to skin does not cause sensitization.

11.6 Chronic Toxicity: No components of this product that are present at greater than 0.1% are identified as probable, possible or confirmed carcinogens by ACGIH, IARC, NTP or OSHA.

12 ECOLOGICAL INFORMATION

| 12.1 Toxicity: | Aquatic Toxicity Fish | | | Aquatic Toxicity Invertebrates | | | |
|----------------|-----------------------|------------------|-------------|--------------------------------|-----------------|---------------|----------|
| | Chemical Name | LC ₅₀ | Species | Duration | EC ₀ | Species | Duration |
| | Sodium Silicate | >2000 mg/L | Danio rerio | 96 hr | >500 mg/L | Daphnia magna | 96 hr |

Ecotoxicity: This product is not expected to be hazardous to the aquatic environment.

12.2 Persistence and degradability:

Biodegradability: Product is inorganic and does not biodegrade.

12.3 Bioaccumulative potential: Not expected to bioaccumulate

12.4 Mobility in soil:

Mobility: Not determined

Results of PBT and vPvB assessment

PBT: Mixture is inorganic and is not considered to be persistent, is not bioaccumulating and is not toxic (PBT).

vPvB: Mixture is inorganic and is not subject to vPvB assessment, see section 12.2.

Other adverse affects: No other information is available.



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13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Dispose of waste and residues in accordance with local authority requirements. Waste is not classified as hazardous waste.

GHS P501-Dispose of contents/container according to local/state/regional/federal regulations.

14 TRANSPORT INFORMATION

This product is covered by international regulation of the transport of dangerous goods.

US DOT: Classified as dangerous goods under transport regulations.

14.1 UN Number: 1719

14.2 UN/IMDG/IATA proper shipping name: Caustic Alkali Liquids, n.o.s.

14.3 Transport hazard class: 8

14.4 Packing group: II

Hazard Labels: Corrosive

14.5 Environmental hazards

Marine pollutant: Not regulated.

Environmentally hazardous substance: Not applicable.

14.6 Special precautions for user: None known.

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:

This product has not been listed by the following states with right-to-know hazardous substances rules: NJ,PA,MA & RI
For information on labeling go to section 2

There are no TSCA 12b chemicals in this product

16: OTHER INFORMATION

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 Number Chemical Abstract Service

CBI Confidential Business Information

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

EC₀ Ecotoxic Highest Concentration that has no mortality of population

EINECS European Inventory of Existing Commercial Chemical Substances

GHS Global Harmonization System, worldwide chemical safety program

| Hazardous Material Identification | |
|-----------------------------------|-----------|
| Health Hazard | 2 |
| Fire Hazard | 0 |
| Reactivity Hazard | 0 |
| Personal Protection | see sec 8 |

0 = minimal hazard, 4 = extreme hazard

Safety Data Sheet & Warranty



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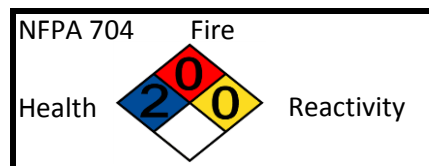


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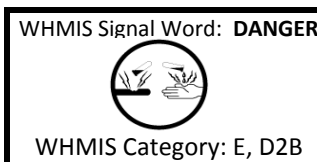
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Wording of terms: (continued)

| | |
|------------------|-----------------------------------------------------------------------|
| IARC | International Agency for Research on Cancer |
| HazCom | Hazard Communication |
| LC ₀ | Highest Concentration that has no mortality of population |
| LC ₅₀ | Lethal concentration for 50% mortality of population |
| LD ₅₀ | Lethal dose for 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 |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Act |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Level |
| RE | Repeated Exposure |
| REACH | Registration, Evaluation, Authorization and Restrictions of Chemicals |
| REL | Recommended Exposure Limit |
| RQ | Reportable Quantity |
| SARA III | Superfund Amendments and Reauthorization Act |
| 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 |
| PBT | Persistent, Bioaccumulative and Toxic |
| US DOT | United States Department of Transportation |
| vPvB | Very Persistent and Very Bioaccumulative |
| VOC | Volatile Organic Compound |
| 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.



E - Corrosive

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: January 26, 2015 Revised October 13, 2016 added SIKA Trademark and format change

Before using, read Scofield's Tech-Data Bulletin TD-1810 for this product, the complete package label and this SDS and Warranty.

END OF SDS



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LIMITED WARRANTY

Since no control is exercised over product use, L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality 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.