

## SAFETY DATA SHEET & WARRANTY



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

### SCOFIELD® FORMULA ONE™ K - 1820 (potassium silicate)

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™ K

**Chemical Name:** Solution of Potassium Silicate with Potassium Methyl-Siliconate and Proprietary Additives

**1.2 Relevant identified uses of product:** SCOFIELD Formula One K is a chemical hardener combined with a water repellent that is used on floors that require extra protection from staining, including ground and polished floors.

##### 1.3 Details of the supplier of the safety data sheet:

**L. M. SCOFIELD Company**

**SCOFIELD Phone Number (800) 800-9900**

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

Acute toxicity, oral, H302, SE, Category 4

Skin irritation, SE, H315, Category 2

Serious eye irritation, SE, H319, Category 2A

##### 2.2 Label elements:

###### GHS Hazard (H) Statements

###### Acute Toxicity

H290--May be corrosive to metal

H302--Harmful if swallowed

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.

GHS Category Key  
1 = Most Hazardous  
5 = Least Hazardous



GHS Pictograms

GHS Signal Word: **WARNING**



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### Prevention Precautionary (P) Statements (continued)

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.

### Response Precautionary (P) Statements

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

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

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

P337+P313--If eye irritation persists: Get medical advice/attention.

### 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:** Potassium Silicate water solution.

**3.2 Mixture:** This product is a mixture of potassium silicate and potassium methyl-siliconate in water with additives

Components of Mixture	CAS #	EINECS #	Weight %
Potassium Silicate	1312-76-1	215-199-1	10 to 30%
Potassium Methyl-Siliconate	31795-24-1	250-807-9	2 to 8%

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 the 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 medical attention 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.



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### 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

**5.2 Special Hazards arising from the substance or mixture:**

Fire hazard: Product is not combustible.

Explosion hazard: 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 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
Potassium Silicate	No data available	No data available
Potassium Methyl-Siliconat	ceiling 2 mg/m <sup>3</sup>	no data available

**8.2 Exposure controls:**

Personal Protective Equipment Symbols:

Engineering measures: Adequate room ventilation is required.

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





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### Exposure controls: (continued)

Respiratory equipment: Is not normally required. If needed, wear a mist filter 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

	Property/Parameter	Result/Value
a)	Appearance	Low Viscosity Liquid
b)	pH	11 to 13
c)	Color	clear to opalescent
d)	Odor	no significant odor
e)	Boiling Range	212 °F (100 °C)
f)	Auto Ignition Temperature	Will not autoignite
g)	Explosive Limits UEL	Not applicable
h)	Explosive Limits LEL	Not applicable
i)	Flammability (solid, gas)	Non-flammable
j)	Vapor Pressure	Not applicable
k)	Vapor density vs air = 1.0	Not applicable
l)	Density, Sp. Gr. water = 1.0	1.05 to 1.25
m)	Solubility in water	miscible in all proportions at 77 °F (25 °C)
n)	K <sub>OW</sub> Partition Coefficient	Not applicable
o)	Evaporation Rate	Similar to water
p)	Viscosity	Slightly more viscous than water
q)	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:** Aluminum will corrode and hydrogen will be evolved. Avoid contact with strong acids.

**10.6 Hazardous decomposition products:** Hydrogen gas can form explosive mixtures with air.

### 11 TOXICOLOGICAL INFORMATION

Chemical Name	LD <sub>50</sub> Rat Oral	LD50 Other Exposure Route
Potassium Silicate	1300 mg/kg	No additional information is available
Potassium Methyl-Siliconate	>2000 mg/kg	Eye/Skin-rabbit-extremely corrosive

#### 11.1 Principal Routes of Entry

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

**11.2 Skin contact:** Repeated or prolonged contact with skin may 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 or confirmed carcinogens by ACGIH, IARC, NTP or OSHA.

### 12 ECOLOGICAL INFORMATION

12.1 Toxicity:	Aquatic Toxicity Fish			Aquatic Toxicity Invertebrates			
	Chemical Name	LC <sub>50</sub>	Species	Duration	EC <sub>50</sub>	Species	Duration
	Potassium Silicate	3185 mg/L	Danio rerio	96 hr	247 ppm	Static Test Daphnia magna	96 hr
	Potassium Silicate, continued	2320 ppm	Gambusia affi	96 hr	NDA	NDA	NDA
	Potassium Methyl-Siliconate	301-478 mg/L	Leopomis mac	96 hr	>100 mg/L	Static Test 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:

Biodegradability: This product is inorganic and is not expected to be biodegradable.

**12.3 Bioaccumulative potential:** This product is not expected to bioaccumulate.

#### 12.4 Mobility in soil:

Mobility: Expected to have high mobility in soils.

Results of PBT and vPvB assessment

PBT: Mixture is not considered to be persistent, is not bioaccumulating but is toxic.

vPvB: Mixture is inorganic and therefore is not subject very persistent and very bioaccumulating assessment.

Other adverse effects: No other information is available.



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**SCOFIELD® FORMULA ONE™ K - 1820 (potassium silicate)****13 DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:** Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste, RCRA Form D002, Corrosive 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:** 3267

**14.2 UN/IMDG/IATA proper shipping name:** Corrosive liquid, basic, organic, n.o.s.

**14.3 Transport hazard class(es):** 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:**

For information on labeling see Section

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
EC <sub>0</sub>	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
IARC	International Agency for Research on Cancer

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

0 = minimal hazard, 4 = extreme hazard

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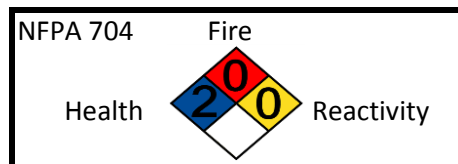


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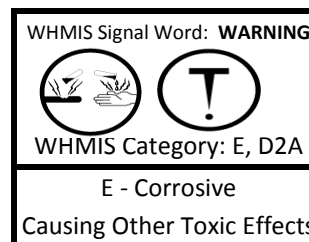
Wording of terms: (continued)

HazCom	Hazard Communication
LC <sub>50</sub>	Lethal concentration that causes 50% mortality of population
LD <sub>50</sub>	Lethal dose 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
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Act
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Level
RCRA	Resource Conservation and Recovery Act
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)



NFPA: 0 = low hazard, 4 = high 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.**



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. October 13, 2016 added SIKA COMPANY Trademark and format change.

**Before using, read Scofield's Tech-Data Bulletin TD-1820 for this product, the complete package label & this SAFETY DATA SHEET & WARRANTY.**

**END OF SDS**

## SAFETY DATA SHEET & WARRANTY



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### **SCOFIELD® FORMULA ONE™ K - 1820 (potassium silicate)**

#### 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.