



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

SCOFIELD® Formula One™ Lithium Densifier MP -1830

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™ Lithium Densifier MP -1830

Chemical Name: Lithium Silicate Solution with Proprietary Additives

1.2 Relevant identified uses of product: SCOFIELD Formula One Lithium Densifier MP-1830 (Multi-Purpose) is a chemical hardener/densifier for use on concrete floors and to facilitate the grinding and polishing of concrete.

1.3 Details of the supplier of the safety data sheet:

www.scofield.com

L. M. SCOFIELD Company, a SIKA Company

SCOFIELD Phone Number (800) 800-9900

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

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

H315-- Causes skin irritation

H319--Causes serious eye irritation

Chronic Toxicity

Possible developmental hazard, may adversely affect a developing fetus.

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.

Response Precautionary (P) Statements

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



GHS Pictogram

GHS Signal Word: **WARNING**



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Response Precautionary (P) Statements (continued)

P303+P361+P338--**IF ON SKIN** (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with soap and 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: Lithium Silicate aqueous solution

3.2 Mixture: This product is mixture of lithium silicate with additives.

Components of Mixture	CAS #	EINECS #	Weight %
Lithium Silicate	12627-14-4	215-687-4	10 to 25%

The exact percentages and some 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, continue flushing. Transport person to hospital and bring these instructions. Provide easy access to eye wash stations close to work area.

Inhalation: If ventilation is inadequate, wear a tight-fitting respirator equipped with particulate filters, N95 or P100.

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: Moderate 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.



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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

Fire hazard: Product is not combustible.

Explosion hazard: Product is not an explosion hazard.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.2 Special Hazards arising from the substance or mixture:

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
Lithium Silicate	Not Established	Not Established

8.2 Exposure controls:

Personal Protective Equipment Symbols:

Engineering measures: Adequate room ventilation is required.

Personal protection: Have eye wash station & safety shower near work area.

Respiratory equipment: Is not normally required. If needed, wear a particulate filter type respirator, N95 or P100.

Personal Protective Equipment Symbols

Respirator Selection: mist/particulate



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Exposure controls (continued)

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

Eye protection: Wear a face shield or safety glasses with side-shields 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	Low Viscosity Liquid
b)	pH	10 to 12
c)	Color	clear to opalescent
d)	Odor	no significant odor
e)	Freezing/Melting Point	32 °F (0 °C)
f)	Boiling Range	212 °F (100 °C)
g)	Flash Point	Will not flash
h)	Auto ignition Temperature	Does not autoignite
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	1.1 to 1.3
o)	Solubility in water	miscible in all proportions
p)	KOW Partition Coefficient	Not applicable
q)	Evaporation Rate	Similar to water
r)	Viscosity	Similar to water
s)	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:** There are no known hazardous reactions.
- 10.4 Conditions to avoid:** Do not allow product to freeze. Product may not be recoverable after freezing.
- 10.5 Incompatible materials:** None are known, avoid contact with strong acids.
- 10.6 Hazardous decomposition products:** None are known

11 TOXICOLOGICAL INFORMATION

Chemical Name	LD ₅₀ Rat Oral	LC ₅₀ Inhalation Rat	LD ₅₀ Other Exposure Route Limit Test
Lithium Silicate Solution	>2000 mg/kg	not available	not available

- 11.1 Inhalation:** Provide adequate ventilation or wear a mist filter respirator, N95 or P100.
- 11.2 Skin contact:** Repeated or prolonged contact with skin may cause allergic reactions in sensitive individuals.
- 11.3 Eye contact:** Wear proper eye protection, safety glasses or tight fitting goggles. Eye contact may cause severe damage. Immediate first aid is required followed by emergency medical attention.
- 11.4 Ingestion:** Lithium compounds may damage the central nervous system. A large oral dose may have the following effects: headache, nausea, dizziness, convulsions and kidney damage.
- 11.5 Specific effects:** Not considered to be carcinogenic, or mutagenic. Not considered to have reproductive or developmental effects, except as in 2.2 Chronic Effects and in 16 below for California Prop 65.

12 ECOLOGICAL INFORMATION

12.1 Toxicity:		aquatic Toxicity Fish			Aquatic Toxicity Invertebrate		
Chemical Name	LC ₅₀	Species	Duration	EC ₀	Species	Duration	
Lithium Silicate Solution	>100 mg/L	Trout	96 hr	800 mg/L	Daphnia magna	48 hr	

Ecotoxicity: This product is not expected to be hazardous to the environment. It shows low acute toxicity to fish and Daphnia magna.

- 12.2 Persistence and degradability:**
Biodegradability: Product is inorganic and cannot be eliminated from water by bioorganisms.
- 12.3 Bioaccumulative potential:** Not expected to be bioaccumulative.

12.4 Mobility in soil:
Mobility: Expected to have high mobility in soils.

Results of PBT and vPvB assessment:
Mixture is inorganic and therefore it not relevant for PBT or vPvB assessment, see sec. 12.2.
Other adverse affects: No other information is available.



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13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Waste is classified as hazardous waste.

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.

US DOT: Not classified as dangerous good under transport regulations.

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: No special precautions are required.

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 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
- 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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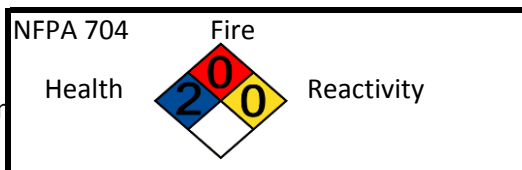


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Wording of terms: (continued)

- HazCom Hazard Communication
- LC₀ Highest Concentration that has no mortality of population
- LC₅₀ Lethal concentration for 50% mortality of population
- LD₅₀ 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
- 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
- vPvB Very Persistent and Very Bioaccumulative
- US DOT United States Department of Transportation
- 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.

WHMIS Category: **NONE**
WHMIS Signal Word: **NONE**

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 to add SIKA COMPANY Trademark and change format. Before using, read Scofield's Tech-Data Bulletin TD-1830 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.