



BUILDING TRUST



L. M. Scofield Company - A SIKA COMPANY

**SCOFIELD® Formula One™ Liquid Dye Concentrate - 1840**

SDS according to GHS OSHA 29 CFR 1910.1200 and 1272/2008/EC (CLP) amending 1907/2006/EC (REACH)

**1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING**

**1.1 GHS Product Identifier:**

Commercial Product Name: **SCOFIELD® Formula One™ Liquid Dye Concentrate - 1840**

Chemical Name: Proprietary Solvent Dye Concentrate Solutions in VOC exempt solvent.

**1.2 Relevant identified uses of product:** SCOFIELD FORMULA ONE Liquid Dye Concentrate must be diluted with about one gallon of acetone for application to provide color on interior concrete hardened concrete or ground and polished floors.

**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 No. (800) 800-9900**

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

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

Information Phone Number (770) 920-6000 8AM-5PM M-F

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

**2 HAZARDS IDENTIFICATION**

**2.1 Classification of substance or mixture**

Human Health: GHS and CLP, irritant, eye contact can result in serious eye injuries.

GHS Hazard (H) Statements

Skin irritation, mild, SE, H316, Category 3

Serious eye irritation, SE, H319, Category 2A

<p>GHS Category Key                  1 = Most Hazardous                  4 = Least Hazardous</p>
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**2.2 Label elements:**

**GHS Hazard (H) Statements:**

**Acute Toxicity**

H316--Causes mild skin irritation

H319--Causes serious eye irritation



GHS Pictogram

Signal Word: **NONE**

**Chronic Toxicity**

No chronic effects are known

**GHS Precautionary (P) Statements:**

**Prevention Precautionary Statements**

P102--Keep out of the reach of children

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

P264--Wash thoroughly after handling

P280--Wear protective gloves/protective clothing/ eye protection/ face protection

P284--In case of inadequate ventilation, wear a respirator equipped with organic vapor and mist cartridges (P100 or N95).

**Response Precautionary Statements**

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

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

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

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.



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**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 Constituents:**

Mixtures of one or more of the following chemicals or materials:

**3.2 Mixture**

Components of mixture	CAS No.	EINECS	Weight %
Propylene Carbonate	108-32-7	303-572-1	60-90%
Solvent dye(s) Cu <sup>+2</sup> metallized	Proprietary	Proprietary	0-40%
Solvent dye(s) Cr <sup>+3</sup> metallized	Proprietary	Proprietary	0-40%

The exact composition of this product and components are withheld as trade secrets and as confidential business information.

**4 FIRST AID MEASURES****4.1 Description of first aid measures**

Eye Contact: Do not rub eye(s). Immediately flush eyes with plenty of clean water and for at least 15 minutes. Remove any contact lenses and open eyelids widely during flushing. If irritation persists, transport person to emergency room/hospital and bring this SDS for the doctor.

Provide easy access to eye wash stations located close to the work area.

Inhalation: If ventilation is inadequate, wear a tight fitting respirator equipped with organic vapors and mist cartridges, P100, N95.

Move person to fresh air and keep comfortable for breathing.

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

Ingestion: If large quantities have been swallowed, give lukewarm water (1 pint or ½ L), but only if individual is conscious and alert.

Do NOT induce vomiting. Risk of aspiration into lungs exceeds poisoning risk. Call 911 or a POISON CENTER (800) 222-1222 for first aid advice. If irritation persists take person to emergency room or hospital and bring this SDS for the doctor.

**4.2 Most important symptoms and effects both acute and delayed:** Hazards: Moderate to severe eye irritant. Risk of serious damage to lungs (by aspiration).**4.3 Indication of any immediate medical attention and special treatment needed:**

If eye contact occurs, immediately flush eyes with water and after flushing eyes thoroughly take person to hospital emergency room. Refer to Section 11 for more detailed information on health effects and symptoms.

Primary routes of entry are: eyes, skin, inhalation and ingestion.

**5 FIRE-FIGHTING MEASURES****5.1 Extinguishing media**Use dry chemical extinguishing media, CO<sub>2</sub>, foam or water to fight fire.**5.2 Special Hazards arising from the substance or mixture:**

Fire hazard: On exposure to high temperatures SCOFIELD Formula One Liquid Dye may decompose, releasing flammable vapors.

Explosion hazard: When vapors are mixed with air and exposed to an ignition source, mixture can explode. Vapors can burn in the open or explode if confined.

**5.3 Advice for firefighting:**

Firefighters should wear full protective clothing including self-contained breathing equipment (SCBA) and fight fire from a distance.



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**6 ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions**

General measures: Use personal protective equipment. Ensure adequate ventilation. Eliminate all sources of ignition. Evacuate personnel to safe areas. See Section 8 for additional information.

Protective equipment: Wear appropriate safety equipment, eye and face protection, rubber gloves and a tight fitting-respirator with organic vapor and particulate-mist cartridges.

**6.2 Environmental precautions**

Avoid any discharge into any waterways, sewers or soil. If spill enters waterway, notify local authorities.

**6.3 Methods and material containment and cleaning up:**

Have spill containment materials available. Soak up liquid with absorbent materials and shovel into marked hazmat drum for disposal. Emergency procedures: Eliminate all sources of ignition. Do not allow product to go into drains, waterways or soil.

**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, drink or smoke in areas where product is being used.

**7.2 Conditions for safe storage including any incompatibilities.** Store in a cool dry area. Keep containers out of direct sunlight.

**7.3 Specific end uses:** Refer to Section 1.2 of use information. Product is intended for professional use only.

**8 EXPOSURE CONTROL/PERSONAL PROTECTION**

**8.1 Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL 8hr	OSHA TWA
Propylene carbonate	not regulated	not regulated	not regulated
Solvent dye(s) Cu <sup>+2</sup> metallized	not regulated	not regulated	not regulated
Solvent dye(s) Cr <sup>+3</sup> metallized	not regulated	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>



**8.2 Exposure controls:**

Engineering measures:

Use only with adequate ventilation. Keep worker exposure of airborne contaminants below agency/statutory limits.

**8.3 Individual protective measures:**

Eye protection: Wear tight-fitting goggles to protect eyes.

Respiratory equipment: In case of inadequate ventilation, wear a tight fitting respirator with organic vapors+particulate mist filters.

Hand protection: Wear chemical resistant (neoprene) impervious gloves to protect hands from product.

Skin protection: Wear a chemical resistant rubber apron or rubber jacket and boots to protect skin from contact with product.

Hygiene measures: Minimize exposure in accordance with good hygiene practice. Wash with soap and water after handling product.

Environmental exposure controls: Provide eyewash stations close to work areas and adequate ventilation when using this product.

Apply absorbent materials to spills to absorb liquid. Handle absorbed material according to applicable local/state/federal regulations.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

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

	Physical State/Property	Value/Result
a)	Appearance	Intensely colored liquid
b)	pH	7.0 nonaqueous
c)	Color	varies with formulation
d)	Odor	faint fruit like odor
e)	Flash Point	275 °F (135 °C) closed cup 1 atmosphere
f)	Explosive Limits, Lower and Upper	(L) 1.8% by volume, (U) 32.5% by volume



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Physical State/Property (continued)	Value/Result (continued)
g) Boiling Point	468 °F (242 °C)
h) Relative Density-sp gr, water = 1.0	1.2
i) Solubility in water	20%
j) Viscosity	no specific data, fluid
k) <b>VOC g/L</b>	<b>11 g/L</b>

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

**10 STABILITY AND REACTIVITY**

- 10.1 Reactivity:** Reacts with soluble silicates to form rigid solids. Avoid contact with strong acids or strong bases.
- 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:** Avoid contact with peroxides, strong acids, strong bases and oxidizers.
- 10.5 Incompatible materials:** Avoid contact with strong acids.
- 10.6 Hazardous decomposition products:** Combustion can release carbon monoxide and/or carbon dioxide.

**11 TOXICOLOGICAL INFORMATION**

Chemical Name	LC <sub>50</sub> Inhalation Rat	LD <sub>50</sub> Other Exposure Route	LD <sub>50</sub> Rat Oral
Propylene Carbonate	no data available	*rabbit dermal >2000 mg/kg	>5000 mg/kg
Solvent Dye Copper <sup>+2</sup> Compound	no data available	no data available	no data available
Solvent Dye Chrome <sup>+3</sup> Compound	no data available	no data available	no data available

\* nonirritating

**11 Principal routes of entry:**

- 11.1 Inhalation:** No significant effects or critical hazards. High concentration in air is unlikely due to low volatility
- 11.2 Eye contact:** Eye contact can cause severe damage. Immediate first aid is required, followed by medical attention.
- 11.3 Ingestion:** If swallowed, do **NOT** induce vomiting. Damage to lungs by aspiration outweighs poisoning risk.
- 11.4 Specific effects:** Not considered to be carcinogenic, mutagenic, or to contribute to reproductive /developmental toxicity. Propylene Carbonate and solvent dyes in this formulation have not been identified as possible or potential carcinogens by ACGIH, IARC NTP or OSHA. This product does not contain any chemicals at 0.1% or higher that have carcinogenic or potential carcinogenic effects.
- 11.5 Chronic Toxicity:** This product does not cause any known chronic toxicity.

**12 ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

Chemical Name	LC <sub>50</sub>	Species	Interval	EC <sub>50</sub>	Species	Interval
Propylene Carbonate	>1000 mg/L	Cyprinus carpio	96 hr	>1000 mg/L	Daphnia magna	48 hr
Solvent Dye Copper <sup>+2</sup>	10-100 mg/L	Zebra fish	96 hr	65.3 mg/L	Daphnia magna	48 hr
Solvent Dye Chrome <sup>+3</sup>	>100 mg/L	Leuciscus idus	96 hr	1-10 mg/L	Daphnia magna	48 hr

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

- 12.2 Persistence and degradability:** Propylene carbonate >83% OECD test Guideline 301B, rapidly biodegradable.
  - 12.3 Bioaccumulative potential:** Not expected to bioaccumulate due to rapid biodegradation.
  - 12.4 Mobility in soil:** Low due to rapid biodegradability.
- Results of PBT and vPvB assessment: Not applicable  
 PBT/vPvB: No additional data are available.  
 Other adverse affects: None are known



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**13 DISPOSAL CONSIDERATIONS**

**13.1 Disposal P501** -- Dispose of contents/container in accordance with local/regional/international regulations as specified.

**14 TRANSPORT INFORMATION**

This product is not covered by international regulation of the transport of dangerous goods (IMDG, IATA, ADR/RID)

US DOT: Not classified as dangerous goods 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

**14.5 Environmental hazards:** Marine pollutant: Not regulated, Environmentally hazardous substance: Not applicable.

**14.6 Special precautions for user:** none are known

**15 REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

OSHA HazCom 2012, 29 CFR 1910.1200 and regulation (EC) No. 1272/2008 (CLP) of the European Parliament

TSCA Inventory Status: All ingredients are listed in the TSCA inventory

SARA Title III Section 302: This product does not contain any materials subject to minimum reporting requirements.

SARA Section 311/312: Acute health hazard: Propylene Carbonate

SARA Title III Section 313: This product does not contain any chemicals with known CAS Numbers that exceed the threshold reporting levels.

RCRA Hazardous Waste: Not applicable

Clean Air Act: No applicable

**15.2 Chemical Safety Assessment:** Not required

Propylene carbonate is listed by the following Right to Know States (RTK), Massachusetts, Pennsylvania, and New Jersey

For information on labeling go to section 2

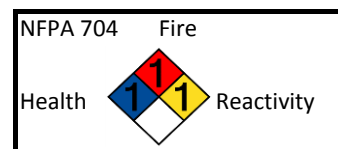
There are no TSCA 12b chemicals in this product,

**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 No. Chemical Abstract Service
- CERCLA Comprehensive Environmental Response, Compensation and Liability Act
- CLP Classification, Labeling and Packaging, EC 1272/2008
- EINECS European Inventory of Existing Commercial Chemical Substances (EU)
- GHS Global Harmonization System
- IARC International Agency for Research on Cancer
- HazCom Hazard Communication
- LC<sub>50</sub> Median Lethal Concentration of Population
- LD<sub>50</sub> Median Lethal Dose 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



NFPA: 0 = low hazard, 4 = high hazard

Hazmat Identification System	
Health Hazard	1
Fire Hazard	1
Reactivity Hazard	1
Personal Protection	See Sec 8 PPE

0 = minimal hazard, 4 = extreme hazard



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Wording of terms: (continued)

- OSHA Occupational Safety & Health Administration
- PBT Bioaccumulative, Persistent and Toxic
- PEL Permissible Exposure Limit
- RCRA Resource Conservation and Recovery Act
- RE Repeated Exposure
- REACH Registration, Evaluation, Authorization & Restrictions of Chemicals, EC/1907/2006
- REL Recommended Exposure Limit
- SARA III Superfund Amendments and Reauthorization Act
- SDS Safety Data Sheet (GHS replacement for MSDS)
- 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
- VOC Volatile Organic Compounds
- vPvB very Persistent and very Bioaccumulative
- 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.**

WHMIS Signal Word: **WARNING**  
WHMIS Class C   
WHMIS D-2B

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 : July 14, 2015, Updated October 13, 2016, added SIKA COMPANY Trademark and format change

Before using, read Scofield's Tech-Data Bulletin TD-1840, the complete package label and this SDS and Warranty.

END OF SDS

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**DANGER-Each 8 fluid ounce (240 mL) of SCOFIELD® Formula One™ Liquid Dye Concentrate unit is mixed with approximately 1 gallon (3.8 L) of acetone prior to use to provide diluted dye. Once the SCOFIELD® Formula One™ Liquid Dye Concentrate is mixed with the acetone, the SDS (or MSDS) for acetone applies in addition to the SDS for SCOFIELD® Formula One™ Liquid Dye Concentrate. After combining, the mixture is over 90% (parts by volume) acetone and the mixture is extremely flammable and dangerous. Take extra care to ensure that all sources of ignition (including heaters and light switches are completely shut down prior to beginning and throughout the entire application of the acetone diluted dye, until it is completely dry and free of vapors.**

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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.