

MSDS Number: SLP004

Southern Lithoplate Inc.
Material Safety Data Sheet

Southern Litho Green Dot Developer

Section 1 - Chemical Product and Company Identification

MSDS Name: Southern Litho Green Dot Developer

Company Identification:

Southern Lithoplate Inc.
105 Jeffrey Way
Youngsville, NC 27596

For information in North America, call: 919-556-9400

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name | Percent | EINECS/ELINCS |
|-----------|---------------------|---------|---------------|
| 7732-18-5 | Water | 65 - 85 | 231-791-2 |
| 111-46-6 | Diethylene Glycol | 5 - 10 | 203-872-2 |
| 1312-76-1 | Potassium Silicate | 5 - 10 | 215-199-1 |
| 1310-58-3 | Potassium Hydroxide | 3 - 10 | 215-181-3 |
| 7778-53-2 | Potassium Phosphate | 1 - 5 | 231-907-1 |

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colorless or pale yellow liquid.

Warning! Eye contact may result in permanent eye damage. Irritant. Causes eye and skin irritation. May cause respiratory tract irritation. Corrosive to aluminum.

Target Organs: Eyes, skin.

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Potential Health Effects

Eye: Causes eye irritation and inflammation. May cause chemical conjunctivitis.

Skin: May cause skin irritation, drying, defatting.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA/HMIS Rating: (estimated) Health: 3; Flammability: 0; Instability: 0 PPE: C

Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

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Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Observe local, state and federal regulations regarding disposal.

Section 7 - Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

| Chemical Name | ACGIH | NIOSH | OSHA - Final PELs |
|---------------------|-----------------------------|-------------|----------------------|
| Water | none listed | none listed | none listed |
| Diethylene Glycol | none listed | none listed | 10 mg/m ³ |
| Potassium Silicate | none listed | none listed | none listed |
| Potassium hydroxide | 2 mg/m ³ Ceiling | none listed | none listed |
| Potassium Phospate | none listed | none listed | none listed |

OSHA Vacated PELs: Water: No OSHA Vacated PELs are listed for these chemicals.

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate impervious protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

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Physical State: Liquid

Appearance: colorless or pale yellow

Odor: odorless or slight musty odor

pH: 12.5 – 13.5 @ 20°C

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: ~212F.

Freezing/Melting Point: ~32F

Decomposition Temperature: Not available.

Solubility: Soluble in water.

Specific Gravity/Density: 1.1

Volatile Organic Compounds (VOC) 0.69lb / gallon

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, excess heat, prolonged exposure to air.

Incompatibilities with Other Materials: Metals, acids.

Hazardous Decomposition Products: Toxic fumes of Carbon monoxide, carbon dioxide and sodium oxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 7732-18-5: ZC0110000

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

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CAS# 1310-58-3:

Draize test, rabbit, skin: 50 mg/24H Severe;

Oral, rat: LD50 = 273 mg/kg;

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CAS# 1312-76-1:

Oral, rat: LD50 = >1500 mg/kg;

CAS# 111-46-6:

Oral, rat: LD50 = 12565 mg/kg;

Skin, rabbit: LD50 = 12510 mg/kg;

Carcinogenicity:

CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 1310-58-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 1312-76-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 111-46-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Genetic Toxicology: CAS# 111-46-6; In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Reproductive Effects: CAS# 111-46-6; Diethylene glycol did not interfere with reproduction except at very high doses.

Other Studies:

Section 12 - Ecological Information

CAS# 111-46-6

Rainbow trout LC50 > 1000 mg/L; 96 Hr; Water flea daphnia magna, EC50 48900 mg/l, 48 hr, immobilization; Unspecified micro-organisms, IC50, OECD 209 test, activated sludge, respiration inhibition, 3 hr, > 1000 mg/l; Aquatic plant EC50, green alga selenastrum capricornutum, biomass growth inhibition, 7 d > 100 mg/l.

Material is readily biodegradable.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

| | US DOT | Canada TDG |
|-----------------------|------------------------------|------------------------------|
| Shipping Name: | Potassium hydroxide solution | Potassium hydroxide solution |
| Hazard Class: | 8 | 8 |
| UN Number: | UN1814 | UN1814 |
| Packing Group: | II | II |

Section 15 - Regulatory Information

US FEDERAL

TSCA

All ingredients are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 1310-58-3: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 1310-58-3: immediate, reactive.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

CAS# 1310-58-3 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7732-18-5; is not present on state lists from CA, PA, MN, MA, FL, or NJ.

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CAS# 1310-58-3 can be found on the following state right to know lists:
California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 111-46-6 can be found on the following state right to know lists:
Pennsylvania.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

C

Risk Phrases:

R 22 Harmful if swallowed.

R 35 Causes severe burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7732-18-5: No information available.

CAS# 1310-58-3: 1

Canada - DSL/NDSL

CAS# 7732-18-5, 111-46-6, 1310-58-3 are listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D1B, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 1310-58-3 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Date 4/6/11

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Southern Lithoplate Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Southern Lithoplate Inc. has been advised of the possibility of such damages.