Lythic Densifier
by Solomon Colors, Inc.

CLASSIFICATION: 03 35 43

PRODUCT DESCRIPTION: Lythic Densifier is a single component, spray-applied, topical additive used to improve the surface of concrete. Lythic Densifier will harden and dustproof concrete surfaces by creating calcium silicate hydrates in the concrete pores. Lythic Densifier is an efficient alternative to traditional silicate densifiers.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:
- Characterized
  - Yes Ex/SC
  - Yes
  - No

% weight and role provided for all substances.

Screened
- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

Identified
- Yes Ex/SC
- Yes
- No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--------------|-------------|---------------------|-------------------|-------------
LYTHIC DENSIFIER [ UNDISCLOSED BM-4 UNDISCLOSED LT-P1 | CAN ]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0 g/l
Regulatory (g/l): 0 g/l

Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
Nanomaterial ... Yes

INVENTORY AND SCREENING NOTES:
Some components are not identified so as to protect proprietary information

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: Eurofins Confirmation LEEDv4 EQ - Low emitting products - wet applied - DiBt/AqBB/SCAQMD
VOC emissions: CHPS High Performance Products Database - Low Emitting Material

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2019-01-03
PUBLISHED DATE: 2019-03-14
EXPIRY DATE: 2022-01-03
This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

### LYTHIC DENSIFIER

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** All components or ingredients used in the manufacturing of this product are analyzed for purity and consistency as determined by product specification and analysis provided by individual ingredient manufacturers. Materials that do not comply are not considered for use in the manufacturing of this product.

**OTHER PRODUCT NOTES:** Product is evaluated in its concentrated form.

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**UNDISCLOSED**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-01-03

<table>
<thead>
<tr>
<th>%:</th>
<th>60.0000 - 90.0000</th>
<th><strong>GS:</strong> BM-4</th>
<th><strong>RC:</strong> None</th>
<th><strong>NANO:</strong> No</th>
<th><strong>ROLE:</strong> Carrier Matrix</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

No hazards found

**SUBSTANCE NOTES:** Diluent/ Carrier

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**UNDISCLOSED**

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-01-03

<table>
<thead>
<tr>
<th>%:</th>
<th>5.0000 - 25.0000</th>
<th><strong>GS:</strong> LT-P1</th>
<th><strong>RC:</strong> None</th>
<th><strong>NANO:</strong> Yes</th>
<th><strong>ROLE:</strong> Reactive Compound</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

**CANCER**  
Japan - GHS  
Carcinogenicity - Category 1A

**CANCER**  
Australia - GHS  
H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** The reported CAS number encompasses different physical states of the particular compound. The specific hazards listed on the HPD refer to a respirable form of the compound and is not applicable to the product described herein.
### Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>Eurofins Confirmation LEEDv4 EQ - Low emitting products - wet applied - DiBt/AgBB/SCAQMD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CERTIFYING PARTY:</strong></td>
<td>Third Party</td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td>All</td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
<td><a href="https://www.mascertifiedgreen.com/solomon">https://www.mascertifiedgreen.com/solomon</a></td>
</tr>
<tr>
<td><strong>ISSUE DATE:</strong></td>
<td>2018-03-15</td>
</tr>
<tr>
<td><strong>EXPIRY DATE:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td>MAS Certified Green</td>
</tr>
<tr>
<td><strong>CERTIFICATION AND COMPLIANCE NOTES:</strong></td>
<td>Certificates available upon request or at third-party certifier's website</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CHPS High Performance Products Database - Low Emitting Material</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CERTIFYING PARTY:</strong></td>
<td>Third Party</td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td>All</td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ISSUE DATE:</strong></td>
<td>2018-07-08</td>
</tr>
<tr>
<td><strong>EXPIRY DATE:</strong></td>
<td>2019-03-31</td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td>MAS Certified Green</td>
</tr>
<tr>
<td><strong>CERTIFICATION AND COMPLIANCE NOTES:</strong></td>
<td>Certificate available upon request</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CERTIFYING PARTY:</strong></td>
<td>Self-declared</td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong></td>
<td>All</td>
</tr>
<tr>
<td><strong>CERTIFICATE URL:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ISSUE DATE:</strong></td>
<td>2018-03-15</td>
</tr>
<tr>
<td><strong>EXPIRY DATE:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CERTIFIER OR LAB:</strong></td>
<td>none</td>
</tr>
<tr>
<td><strong>CERTIFICATION AND COMPLIANCE NOTES:</strong></td>
<td>Product as manufactured contains less VOC than the threshold required by Rule 1113</td>
</tr>
</tbody>
</table>

### Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

**NO ACCESSORIES ARE REQUIRED FOR THIS PRODUCT**

**HPD URL:** No HPD Available

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**

No accessories are required for this product

### Section 5: General Notes

This product has been tested according to California Department of Public Health Standard Method v1.2 for VOC
compliance. This product does not contain any ingredients listed on the Living Building Challenge v3.1 Red List.
## MANUFACTURER INFORMATION

**MANUFACTURER:** Solomon Colors, Inc.  
**ADDRESS:** 4050 Color Plant Rd, Springfield, IL 62702, United States  
**WEBSITE:** [www.lythic.com](http://www.lythic.com)

**CONTACT NAME:** Thomas Collupy  
**TITLE:** Product Manager  
**PHONE:** 800-624-0261  
**EMAIL:** info@solomoncolors.com

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### KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet  
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**Hazard Types**

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU</td>
<td>Aquatic toxicity</td>
</tr>
<tr>
<td>CAN</td>
<td>Cancer</td>
</tr>
<tr>
<td>DEV</td>
<td>Developmental toxicity</td>
</tr>
<tr>
<td>END</td>
<td>Endocrine activity</td>
</tr>
<tr>
<td>EYE</td>
<td>Eye irritation/corrosivity</td>
</tr>
<tr>
<td>GEN</td>
<td>Gene mutation</td>
</tr>
<tr>
<td>GLO</td>
<td>Global warming</td>
</tr>
<tr>
<td>MAM</td>
<td>Mammalian/systemic/organ toxicity</td>
</tr>
<tr>
<td>MUL</td>
<td>Multiple hazards</td>
</tr>
<tr>
<td>NEU</td>
<td>Neurotoxicity</td>
</tr>
<tr>
<td>OZO</td>
<td>Ozone depletion</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PHY</td>
<td>Physical Hazard (reactive)</td>
</tr>
<tr>
<td>REP</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>RES</td>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>SKI</td>
<td>Skin sensitization/irritation/corrosivity</td>
</tr>
<tr>
<td>LAN</td>
<td>Land Toxicity</td>
</tr>
<tr>
<td>NF</td>
<td>Not found on Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**GreenScreen (GS)**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-1</td>
<td>Benchmark 1 (avoid - chemical of high concern)</td>
</tr>
<tr>
<td>BM-2</td>
<td>Benchmark 2 (use but search for safer substitutes)</td>
</tr>
<tr>
<td>BM-3</td>
<td>Benchmark 3 (use but still opportunity for improvement)</td>
</tr>
<tr>
<td>BM-4</td>
<td>Benchmark 4 (prefer-safer chemical)</td>
</tr>
<tr>
<td>BM-U</td>
<td>Benchmark Unspecified (insufficient data to benchmark)</td>
</tr>
<tr>
<td>LT-P1</td>
<td>List Translator Possible Benchmark 1</td>
</tr>
<tr>
<td>LT-1</td>
<td>List Translator Likely Benchmark 1</td>
</tr>
<tr>
<td>LT-UNK</td>
<td>List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)</td>
</tr>
<tr>
<td>NoGS</td>
<td>Unknown (no data on List Translator Lists)</td>
</tr>
</tbody>
</table>

**Recycled Types**

- PreC Preconsumer (Post-Industrial)
- PostC Postconsumer
- Both Both Preconsumer and Postconsumer
- Unk Inclusion of recycled content is unknown
- None Does not include recycled content

**Other Terms**

- Inventory Methods:
  - Nested Method / Material Threshold: Substances listed within each material per threshold indicated per material
  - Nested Method / Product Threshold: Substances listed within each material per threshold indicated per product
  - Basic Method / Product Threshold: Substances listed individually per threshold indicated per product
- Nano: Composed of nano scale particles or nanotechnology
- Third Party Verified: Verification by independent certifier approved by HPDC
- Preparer: Third party preparer, if not self-prepared by manufacturer
- Applicable facilities: Manufacturing sites to which testing applies

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The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.