Section 1: Summary

Based on the selected Content Inventory Threshold:

- Characterized: ....................................................
  - Yes  No
- Are the Percent Weight and Role provided for all substances?
  - Yes  No
- Screened: ........................................................
  - Yes  No
- Are all substances screened using Priority Hazard Lists with results disclosed?
  - Yes  No
- Identified: ......................................................
  - Yes  No
- Are all substances disclosed by Name (Specific or Generic) and Identifier?
  - Yes  No

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.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRYTEK MOISTURE VAPOR BARRIER FOR PIGMENTS</td>
<td>BISPHENOL A DIGLYCIDYL ETHER (BADGE)</td>
<td>LT-P1</td>
<td>END</td>
<td>FORMALDEHYDE, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE AND PHENOL, LT-P1</td>
</tr>
<tr>
<td></td>
<td>CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA-ALKANES, HYDROGENATED UNK</td>
<td></td>
<td>SKI</td>
<td>EYE</td>
</tr>
<tr>
<td></td>
<td>BUTANEDIOLDIGLYCIDYL ETHER</td>
<td>LT-UNK</td>
<td>MAM</td>
<td>EYE</td>
</tr>
<tr>
<td></td>
<td>TRIMETHYLHEXAMETHYLENEDIAMINE</td>
<td>LT-P1</td>
<td>MUL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BUTYLPHEN</td>
<td>LT-P1</td>
<td>END</td>
<td>SKI</td>
</tr>
<tr>
<td></td>
<td>UREA, N, N’-BIS[3-(DIMETHYLAMINO)PROPYL]-</td>
<td>LT-P1</td>
<td>MUL</td>
<td></td>
</tr>
</tbody>
</table>

Number of Greenscreen BM-4/BM3 contents........ 0
Contents highest concern GreenScreen Benchmark or List translator Score.............. LT-1
Nanomaterial............. No

INVENTORY AND SCREENING NOTES:

This HPD was created with Basic Inventory.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 75.00  Regulatory (g/l):

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

CERTIFICATIONS AND COMPLIANCE

VOC emissions: UL GreenGuard Gold (DRYTEK MVB)
VOC content: TDS 251 "Low VOC LATICRETE® Products"

See Section 3 for additional listings.
This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; “Not Found” does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

<table>
<thead>
<tr>
<th>Material Description</th>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRYTEK MOISTURE VAPOR BARRIER FOR PIGMENTS</td>
<td>100.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>NO</td>
<td>Resin</td>
<td>ENDOCRINE</td>
<td>EU - Priority Endocrine Disrupters</td>
</tr>
<tr>
<td>BISPHENOL A DIGLYCIDYL ETHER (BADGE)</td>
<td>30.0000 - 50.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>NO</td>
<td>Resin</td>
<td></td>
<td>EU - Priority Endocrine Disrupters</td>
</tr>
<tr>
<td>HAZARDS:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Category 2 - In vitro evidence of biological activity related to Endocrine Disruption</td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>The amount of this component may vary based on plant of manufacture.</td>
</tr>
<tr>
<td>FORMALDEHYDE, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE AND PHENOL</td>
<td>7.0000 - 12.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>NO</td>
<td>Resin</td>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
</tr>
<tr>
<td>CARBOMONOCYCLIC ALKYLATED MIXTURES OF POLY-AZA-ALKANES, HYDROGENATED</td>
<td>4.0000 - 10.0000</td>
<td>UNK</td>
<td>None</td>
<td>NO</td>
<td>Resin</td>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H314 - Causes severe skin burns and eye damage</td>
<td></td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H317 - May cause an allergic skin reaction</td>
<td></td>
</tr>
<tr>
<td>SKIN SENSITIZE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R43 - May cause sensitization by skin contact</td>
<td></td>
</tr>
<tr>
<td>EYE IRRITATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H318 - Causes serious eye damage</td>
<td></td>
</tr>
<tr>
<td>SKIN IRRITATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>R34 - Causes burns</td>
<td></td>
</tr>
<tr>
<td>Substances</td>
<td>ID</td>
<td>% Range</td>
<td>GS</td>
<td>RC</td>
<td>NANO</td>
<td>ROLE</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>---------</td>
<td>------</td>
<td>-----</td>
<td>------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Alky (C12, C14) Glycidyl Ether</td>
<td>68609-97-2</td>
<td>3.0000 - 10.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>NO</td>
<td>Hardener</td>
<td></td>
</tr>
<tr>
<td>Butanedioldiglycidyl Ether</td>
<td>2425-79-8</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>NO</td>
<td>Curing Agent</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARDS:**

<table>
<thead>
<tr>
<th>Agency(Ies) with Warnings:</th>
<th>AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation</td>
<td>R38 - Irritating to skin</td>
</tr>
<tr>
<td>Skin Sensitize</td>
<td>R43 - May cause sensitization by skin contact</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>H315 - Causes skin irritation</td>
</tr>
<tr>
<td>Skin Sensitize</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td>Multiple</td>
<td>German FEA - Substances Hazardous to Waters</td>
</tr>
<tr>
<td></td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on plant of manufacture.
### TRIMETHYLHEXAMETHYLENEDIAMINE

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0000 - 5.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>NO</td>
<td>Resin</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

MULTIPLE
- **German FEA - Substances Hazardous to Waters** Class 2 - Hazard to Waters

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

### BUTYLPHEN

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0000 - 4.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>NO</td>
<td>Resin</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

- **OSPAR - Priority PBTs & EDs & equivalent concern** Endocrine Disruptor - Substance of Possible Concern
- **EU - Priority Endocrine Disrupters** Category 2 - In vitro evidence of biological activity related to Endocrine Disruption
- **EU - GHS (H-Statements)**
  - H315 - Causes skin irritation
  - H318 - Causes serious eye damage
  - H361f - Suspected of damaging fertility
- **ChemSec - SIN List** Endocrine Disruption
- **TEDX - Potential Endocrine Disruptors** Potential Endocrine Disruptor
- **German FEA - Substances Hazardous to Waters** Class 2 - Hazard to Waters
- **MAK** Sensitizing Substance Sh - Danger of skin sensitization

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

### UNDISCLOSED

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5000 - 1.0000</td>
<td>NoGS</td>
<td>None</td>
<td>NO</td>
<td>Curing Agent</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists
### M-Xylene-Alpha,Alpha'-Diamine

<table>
<thead>
<tr>
<th>ID: 1477-55-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.3000 - 1.5000</td>
</tr>
</tbody>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

<table>
<thead>
<tr>
<th>MULTIPLE</th>
<th>German FEA - Substances Hazardous to Waters</th>
<th>Class 2 - Hazard to Waters</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN SENSITIZE</td>
<td>MAK</td>
<td>Sensitizing Substance Sh - Danger of skin sensitization</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.

### Undisclosed

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.2000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: NO</th>
<th>ROLE: Defoamer</th>
</tr>
</thead>
</table>

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>EU - R-phrases</th>
<th>R45 - May cause cancer</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENE MUTATION</td>
<td>EU - R-phrases</td>
<td>R46 - May cause heritable genetic damage</td>
</tr>
<tr>
<td>MAMMALIAN</td>
<td>EU - GHS (H-Statements)</td>
<td>H304 - May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>EU - GHS (H-Statements)</td>
<td>H340 - May cause genetic defects</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>GENE MUTATION</td>
<td>EU - Annex VI CMRs</td>
<td>Mutagen - Category 1B</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 3 - Severe Hazard to Waters</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.
UREA, N, N'-BIS[3-(DIMETHYLAMINO)PROPYL]-
ID: 52338-87-1

%: 0.1000 - 0.8000  GS: LT-P1  RC: None  NANO: NO  ROLE: Hardener

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE  German FEA - Substances Hazardous to Waters  Class 2 - Hazard to Waters

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

---

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.

**VOC EMissions**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Applies to All Facilities.
CERTIFICATE URL: https://spot.ulprospector.com/documents/1479858.pdf?b=683987&bs=31935&st=1&sl=42706514&crit=a2V5d29yZDpbTEFUSUNSRVRFXQ%3d%3d&k=LATICRETE
CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 Credit "Low Emitting Materials" Emissions and Content Requirements.

**VOC CONTENT**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: Applies to all facilities.
CERTIFICATE URL: https://www.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx?la=en
CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 Credit "Low Emitting Materials" Emissions and Content Requirements.

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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.

**SPARTACOTE® EPOXY PIGMENTS**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: DRYTEK® Moisture Vapor Barrier for Pigments to be be mixed with SPARTACOTE® Epoxy Pigments only following mix ratio and directions as stated on product data sheet.

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Section 5: General Notes

DRYTEK® Moisture Vapor Barrier for Pigments does not meet Living Building Challenge requirements because it does contain a component which is found on the Red Listed Materials or Chemicals. Specifically, DRYTEK Moisture Vapor Barrier for Pigments contains Bisphenol A Diglycidyl Ether (BADGE) as stated in Section 2 of this HPD.
MANUFACTURER INFORMATION

MANUFACTURER: LATICRETE International
ADDRESS: 1 Laticrete Park North
Bethany, CT 06524
USA
WEBSITE: www.laticrete.com

CONTACT NAME: Mitch Hawkins
TITLE: Technical Services Manager
PHONE: 203-393-4619
EMAIL: wmhawkins@laticrete.com

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

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2 Benchmark 2 (use but search for safer substitutes)
BM-1 Benchmark 1 (avoid - chemical of high concern)
BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
UNK Unknown (no data on List Translator Lists)

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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer’s self-declaration (First Party)
Independent Lab Manufacturer’s self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier

Applicable facilities Manufacturing sites to which testing applies

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a “Health Product Declaration,” or “HPD.” 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 Open Standard noted.