SPARTACOTE® FLEX PURE CLINICAL PLUS™ by LATICRETE International

CLASSIFICATION: 09 67 23.00

PRODUCT DESCRIPTION: A low VOC and minimal odor, fast curing, two part polyaspartic aliphatic polyurea sealer/finish coating for hospitals, veterinary clinics, pharmaceutical facilities, and more... Important characteristics of SPARTACOTE FLEX PURE CLINICAL PLUS are its rapid-cure, its durable, seamless finish, and its antimicrobial properties. This product is low VOC and does not emit strong solvent odors during installation.

Section 1: Summary

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

Are All Substances Above the Threshold Indicated:
- Yes
- No

Characterized
- Percent Weight and Role Provided?
- Yes
- No

Screened
- Using Priority Hazard Lists with Results Disclosed?
- Yes
- No

Identified
- Name and Identifier Provided?
- 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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--- | --- | --- | --- | ---
SPARTACOTE® FLEX PURE CLINICAL PLUS™ | HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HD) HOMOPOLYMER | LT-UNK | | |
TETRAETHYL N,N’-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE | LT-UNK | | SKI | AQU
BIS(4-(1,2-BIS(ETHOXYCARBONYL)ETHYLAMINO)-3-METHYLCYCLOHEXYL)METHANE | LT-UNK | | SKI | AQU
DIETHYL ETHER ACETATE (DPMA) | LT-UNK | | | |
2-BUTENEDIOIC ACID (E), DIETHYL ESTER | LT-UNK | | | |
COCONUT OIL | NGGS | UNDISCLOSED | LT-P | |
GLYCOL METHYL ETHER ACETATE (DPMA) | LT-UNK | | MAM | EYE | SKI | RES
2-BUTENEDIOIC ACID (E), DIETHYL ESTER | LT-UNK | | | |
COCONUT OIL | NGGS | UNDISCLOSED | LT-P | |
PBT | MUL UNDISCLOSED | UNK | SKI | AQU UNDISCLOSED
| UNK | UNK | | |
1,6-Hexamethylene DIsocyanate | LT-UNK | | MAM | EYE | | |
UNDISCLOSED | LT-P | | MUL UNDISCLOSED | LT-P | | |
| SKI | AQU | END | MUL | PHY

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 3.39
Regulatory (g/l): N/A

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

CERTIFICATIONS AND COMPLIANCE

VOC content: TDS 251 "Low VOC LATICRETE Products / LEED Certification"

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared

VERIFIER: 

VERIFICATION #: 

SCREENING DATE: 2017-11-28
PUBLISHED DATE: 2017-11-28
EXPIRY DATE: 2020-11-28
Section 2: Content in Descending Order of Quantity

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

SPARTACOTE® FLEX PURE CLINICAL PLUS™

PRODUCT THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are measured by quantitative methods and are only displayed when they are potentially greater than 100 ppm.
OTHER PRODUCT NOTES: See SDS at www.laticrete.com for occupational exposure information.

HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER)

%: 38.0000 - 45.0000
GB: LT-P1
RC: None
NANO: No
ROLE: Activator
HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found
No warnings found on HPD Priority lists
SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

TETRAETHYL N,N'-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE

%: 30.0000 - 36.0000
GB: LT-UNK
RC: None
NANO: No
ROLE: Resin
HAZARDS: AGENCY(IES) WITH WARNINGS:
SKIN SENSITIZE
EU - R-phrases
R43 - May cause sensitization by skin contact
ACUTE AQUATIC
EU - R-phrases
R52 - Harmful to Aquatic Organisms
SKIN SENSITIZE
EU - GHS (H-Statements)
H317 - May cause an allergic skin reaction
SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

BIS(4-(1,2-BIS(ETHOXYCARBONYL)ETHYLAMINO)-3-METHYLCYCLOHEXYL)METHANE

%: 10.0000 - 15.0000
GB: LT-UNK
RC: None
NANO: No
ROLE: Resin
HAZARDS: AGENCY(IES) WITH WARNINGS:
SKIN SENSITIZE
EU - R-phrases
R43 - May cause sensitization by skin contact
ACUTE AQUATIC
EU - R-phrases
R52 - Harmful to Aquatic Organisms
### Skin Sensitize

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

**Substance Notes:** The amount of this component may vary based on the plant of manufacture.

### Dipropylene Glycol Methyl Ether Acetate (DPMA)

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.0000 - 17.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Solvent</td>
</tr>
</tbody>
</table>

**Hazards:** None Found

**Agency(ies) With Warnings:** None found on HPD Priority lists

**Substance Notes:** The amount of this component may vary based on the plant of manufacture.

### 2-Butenedioic Acid (E)-, Diethyl Ester

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Defoamer</td>
</tr>
</tbody>
</table>

**Hazards:** None Found

**Agency(ies) With Warnings:** None found on HPD Priority lists

**Substance Notes:** The amount of this component may vary based on the plant of manufacture.

### Coconut Oil

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0000 - 3.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Workability Adjuster</td>
</tr>
</tbody>
</table>

**Hazards:** None Found

**Agency(ies) With Warnings:** None found on HPD Priority lists

**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>1.0000 - 1.5000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>UV Stabilizer</td>
</tr>
</tbody>
</table>

**Hazards:** PBT, EC - CEPA DSL, Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)

**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. 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>%: 0.5000 - 1.0000</th>
<th>GS: UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: UV Stabilizer</th>
</tr>
</thead>
</table>

**HAZARDS:**

**SKIN SENSITIZE**  
EU - GHS (H-Statements)  
H317 - May cause an allergic skin reaction

**CHRON AQUATIC**  
EU - GHS (H-Statements)  
H411 - Toxic to aquatic life with long lasting effects

**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>%: 0.5000 - 1.0000</th>
<th>GS: UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: UV Stabilizer</th>
</tr>
</thead>
</table>

**HAZARDS:**

**SKIN SENSITIZE**  
EU - GHS (H-Statements)  
H317 - May cause an allergic skin reaction

**CHRON AQUATIC**  
EU - GHS (H-Statements)  
H411 - Toxic to aquatic life with long lasting effects

**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.

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### 1,6-Hexamethylene Diisocyanate

**ID:** 822-06-0

<table>
<thead>
<tr>
<th>%: 0.2000 - 0.4000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Activator</th>
</tr>
</thead>
</table>

**HAZARDS:**

**MAMMALIAN**  
EU - R-phrases  
R23 - Toxic by Inhalation (gas, vapour, dust/mist)

**EYE IRRITATION**  
EU - R-phrases  
R36 - Irritating to eyes

**SKIN IRRITATION**  
EU - R-phrases  
R38 - Irritating to skin

**RESPIRATORY**  
EU - R-phrases  
R42 - May cause sensitization by inhalation

**SKIN SENSITIZE**  
EU - R-phrases  
R43 - May cause sensitization by skin contact

**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagen (G) - generally accepted

**SKIN IRRITATION**  
EU - GHS (H-Statements)  
H315 - Causes skin irritation

**SKIN SENSITIZE**  
EU - GHS (H-Statements)  
H317 - May cause an allergic skin reaction

**EYE IRRITATION**  
EU - GHS (H-Statements)  
H319 - Causes serious eye irritation

**MAMMALIAN**  
EU - GHS (H-Statements)  
H331 - Toxic if inhaled

**RESPIRATORY**  
EU - GHS (H-Statements)  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**RESPIRATORY**  
MAK  
Sensitizing Substance Sah - Danger of airway & skin sensitization
SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

UNDISCLOSED

<table>
<thead>
<tr>
<th>%: 0.1000 - 0.2000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: UV Stabilizer</th>
</tr>
</thead>
</table>

HAZARDS:

MULTIPLE

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

UNDISCLOSED

<table>
<thead>
<tr>
<th>%: 0.0500 - 0.2000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Anti-Microbial</th>
</tr>
</thead>
</table>

HAZARDS:

SKIN IRRITATION

EU - R-phrases  
R34 - Causes burns

ACUTE AQUATIC

EU - R-phrases  
R50 - Very Toxic to Aquatic Organisms

ACUTE AQUATIC

EU - GHS (H-statements)  
H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-statements)  
H410 - Very toxic to aquatic life with long lasting effects

SKIN IRRITATION

EU - GHS (H-statements)  
H314 - Causes severe skin burns and eye damage

ENDOCRINE

TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters  
Class 3 - Severe Hazard to Waters

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-statements)  
H272 - May intensify fire; oxidiser

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.

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 CONTENT

<table>
<thead>
<tr>
<th>CERTIFYING PARTY: Self-declared</th>
<th>APPLICABLE FACILITIES: Applies to All Facilities</th>
<th>CERTIFICATE URL:</th>
<th>TDS 251 &quot;Low VOC LATICRETE Products / LEED Certification&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISSUE DATE: 2017-11-27</td>
<td>EXPIRY DATE: 2099-12-31</td>
<td>CERTIFIER OR LAB: LATICRETE</td>
<td>hpdrepository.hpd-collaborative.org</td>
</tr>
</tbody>
</table>
CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 "Low Emitting Materials" VOC content requirements.

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.

Section 5: General Notes

SPARTACOTE® FLEX PURE CLINICAL PLUS™ meets the Living Building Challenge requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, SPARTACOTE FLEX PURE CLINICAL PLUS does not contain the following: •Alkylphenols* •Asbestos •Bisphenol A (BPA)* •Cadmium •Chlorinated Polyethylene & Chlorosulfonated Polyethylene •Chlorobenzenes* •Chlorofluorocarbons (CFCs) & Hydrochlorofluorocarbons (HCFCs)* •Chloroprene (Neoprene) •Chromium VI* •Chlorinated Polyvinyl Chloride (CPVC)* •Formaldehyde (all types - added) •Halogenated Flame Retardants (HFRs) •Lead (added) •Mercury •Polychlorinated Biphenyls (PCBs)* •Perfluorinated Compounds (PFCs)* •Pththalates •Polyvinyl Chloride (PVC) •Polyvinylidene Chloride (PVDC)* •Short Chain Chlorinated Paraffins* •Wood treatments containing Creosote, Arsenic or Pentachlorophenol. SPARTACOTE FLEX PURE CLINICAL PLUS also does not contain the following California-defined Group II toxic exempt solvents: •Methylene Chloride (Dichloromethane) •1,1,1-trichloroethane (methyl chloroform) •Trichlorofluoromethane (CFC-11) • Dichlorofluoromethane (CFC-12) •1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) •1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114) •Chloropentafluoroethane (CFC-115) •Cyclic, Branched or Linear, Completely Methylated Siloxanes (VMS) •Tetrachloroethylene (perchloroethylene) •Ethylfluoride (HFC-161) •1,1,1,3,3,3-hexafluoropropane (HFC-236fa) •1,1,2,3,3-pentafluoropropane (HFC-245ca) •1,1,2,3,3-pentafluoropropane (HFC-245ea) •1,1,1,2,3-pentafluoropropane (HFC-245eb) •1,1,1,3,3-pentafluoropropane (HFC-245fa) •1,1,2,3,3-hexafluoropropane (HFC-236ea) •1,1,1,3,3-pentafluorobutane (HFC-365mc) •chlorofluoromethane (HCFC-31) •1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a) •1 chloro-1-fluoroethane (HCFC-151a)

Section 6: References

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

SPARTACOTE FLEX PURE CLINICAL PLUS
hpdrepository.hpd-collaborative.org

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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

- **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)
- **NoGS**: 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 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.