Ucrete HP/F Systems
by Master Builders Solutions

Health Product Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 20894
CLASSIFICATION: 09 67 23 Fluid-Applied Flooring

PRODUCT DESCRIPTION: This HPD covers the entire Ucrete HP/F System and all possible colors. Ucrete hygienic floors provide ideal floor finishes for applications in the food, beverage, chemical and pharmaceutical industries. They offer a uniform and seamless flooring system that creates a safe and attractive working environment. Dense and impervious, Ucrete surfaces retain their integrity at temperatures of up to 130°C, and have been proven to meet the most stringent hygiene and cleanliness requirements where a long lasting robust floor is crucial. For employee safety, a wide range of slip resistant profiles are available.

Ucrete HP/F is a four component polyurethane concrete system with a flake broadcast. The system is installed at a finished thickness of 1/4 – 3/8" (6 – 9 mm). The thickness is determined by the service and cleaning temperatures and the severity of traffic expected. Ucrete HP/F uses a decorative colored flake broadcast. Ucrete floors are extremely tough and have many physical properties that exceed those of typical concrete.

INVENTORY AND SCREENING NOTES:
All residuals and impurities are included in the threshold review.

Number of Greenscreen BM-4/BM3 contents ... 3
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
All residuals and impurities are included in the threshold review.

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
UCRETE PT 3 | QUARTZ LT-3 | CAN PORTLAND CEMENT LT-P1 | END | CAN UNDISCLOSED NoGS CALCIUM HYDROXIDE LT-P1 GYPSUM LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK MAGNESIUM OXIDE LT-UNK | CAN UNDISCLOSED BM-3 UNDISCLOSED LT-UNK | UCRETE PT 1 | UNDISCLOSED NoGS UNDISCLOSED BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK | PBT UNDISCLOSED LT-1 | END | UCRETE PT2 | POLYMERIC MDI (PMDI) LT-UNK RES MUL CAN METHYLENE BISPHENYL DIISOCYANATE (PURE MDI) LT-UNK RES MUL | SKI | EYE | CAN DIPHENYLMETHANE DISOCYANATE (MDI) - NON ISOMER SPECIFIC LT-UNK MUL | SKI | EYE RES CAN ISOCYANIC ACID POLYMETHYLENEPOLYPHENYLENE ESTER POLYMER WITH -HYDRO-...HYDROXYPOLY(OXY-1,2-ETHANEDIYL) LT-UNK UNDISCLOSED LT-UNK MUL RES | UCRETE PT 4 COLOR [ UNDISCLOSED NoGS CHROMIUM (III) OXIDE LT-EP SKI FERRIC OXIDE BM-4 CAN UNDISCLOSED LT-UNK CAN UNDISCLOSED LT-UNK TITANIUM DIOXIDE LT-3 CAN END UNDISCLOSED LT-UNK METHYL SOYATE (HYDROXYFUNCTIONAL CARBOCYCLIC ACID ESTER WITH PIGMENT) LT-UNK QUARTZ LT-1 | CAN

CONTENT INVENTORY
Inventory Reporting Format
G Nested Materials Method
G Basic Method
Threshold Disclosed Per
G Material
G Product

Threshold level
G 100 ppm
G 1,000 ppm
G Per GHS SDS
G Other

Residuals/Impurities
Residuals/Impurities Considered in 5 of 5 Materials
Explanation(s) provided for Residuals/Impurities?
G Yes
G No

Nested Method / Product Threshold
All Substances Above the Threshold Indicated Are:
Characterized G Yes Ex/SC G Yes G No
% weight and role provided for all substances.
Screened G Yes Ex/SC G Yes G No
All substances screened using Priority Hazard Lists with results disclosed.
Identified G Yes Ex/SC G Yes G 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.
VOLATILE ORGANIC COMPOUND (VOC) CONTENT
Material (g/l): 37 g/l max in any one component
Regulatory (g/l): In process to be completed by June
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: Yes

CERTIFICATIONS AND COMPLIANCE
VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
VOC emissions: Eurofins Indoor Air Comfort GOLD - certified product
VOC content: VOC Content
Other: Halal Certification Europe

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed.
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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

<table>
<thead>
<tr>
<th>UCRETE PT 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD:</strong> 1000 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES CONSIDERED:</strong> Yes</td>
</tr>
<tr>
<td><strong>MATERIAL TYPE:</strong> Polymeric Material</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES:</strong> All residuals and impurities have been evaluated for regulatory compliance regardless of threshold reporting.</td>
</tr>
<tr>
<td><strong>OTHER MATERIAL NOTES:</strong> Ucrete Pt 3 is packaged at 38.1 lbs (17.3 kg) for proper ratio,</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>QUARTZ</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID:</strong> 14808-60-7</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING METHOD:</strong> Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE:</strong> 2019-11-13</td>
</tr>
<tr>
<td><strong>%:</strong> 60.0000 - 70.0000</td>
</tr>
<tr>
<td><strong>GS:</strong> LT-1</td>
</tr>
<tr>
<td><strong>RC:</strong> None</td>
</tr>
<tr>
<td><strong>NANO:</strong> No</td>
</tr>
<tr>
<td><strong>SUBSTANCE ROLE:</strong> Filler</td>
</tr>
<tr>
<td><strong>HAZARD TYPE</strong></td>
</tr>
<tr>
<td>CANCER</td>
</tr>
<tr>
<td>CANCER</td>
</tr>
<tr>
<td>CANCER</td>
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<tr>
<td>CANCER</td>
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<td>CANCER</td>
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<tr>
<td>CANCER</td>
</tr>
<tr>
<td>CANCER</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.

<table>
<thead>
<tr>
<th>PORTLAND CEMENT</th>
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<tbody>
<tr>
<td><strong>ID:</strong> 65997-15-1</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING METHOD:</strong> Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE:</strong> 2019-11-13</td>
</tr>
<tr>
<td>Substance</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>Ucrete HP/F Systems</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>%: 3.0000 - 8.0000</td>
</tr>
<tr>
<td>Substances Notes: All residuals and impurities above the threshold are included.</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>%: 2.0000 - 5.0000</td>
</tr>
<tr>
<td>Substances Notes: This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>%: 0.1000 - 2.0000</td>
</tr>
<tr>
<td>Substances Notes: All residuals and impurities above the threshold are included.</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
<tr>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td>%: 10.0000 - 20.0000</td>
</tr>
<tr>
<td>Substances Notes: This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.</td>
</tr>
</tbody>
</table>
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 2.0000  GS: LT-UNK  RC: None  NANO: No  SUBSTANCE ROLE: Binder

HAZARD TYPE

None found

WARNINGS

SUBSTANCE NOTES: All residuals and impurities above the threshold are included.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 2.0000  GS: LT-UNK  RC: None  NANO: No  SUBSTANCE ROLE: Binder

HAZARD TYPE

None found

WARNINGS

SUBSTANCE NOTES: All residuals and impurities above the threshold are included.

MAGNESIUM OXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 4.0000  GS: LT-UNK  RC: None  NANO: No  SUBSTANCE ROLE: Binder

HAZARD TYPE

CANCER  MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

WARNINGS

SUBSTANCE NOTES: All residuals and impurities above the threshold are included.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 4.0000  GS: BM-3  RC: None  NANO: No  SUBSTANCE ROLE: Surfactant

HAZARD TYPE

None found

WARNINGS

SUBSTANCE NOTES: This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

UNDISCLOSED
<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surfactant</strong></td>
<td>%: 0.0000 - 2.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE**
None found

**AGENCY AND LIST TITLES**
No warnings found on HPD Priority Hazard Lists

**WARNINGS**
None found

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.

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<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ucrete PT 1</strong></td>
<td>%: 12.0000 - 20.0000</td>
<td></td>
<td></td>
<td></td>
<td>Polymeric Material</td>
</tr>
</tbody>
</table>

**PRODUCT THRESHOLD:** 1000 ppm

**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**MATERIAL TYPE:** Polymeric Material

**RESIDUALS AND IMPURITIES NOTES:** All residuals and impurities have been evaluated for regulatory compliance regardless of threshold reporting.

**OTHER MATERIAL NOTES:** Ucrete Pt 1 is delivered as part of the system in a 3 liter package filled to provide the correct ratio. All substances in this material are below the reportable threshold.

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<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNDISCLOSED</strong></td>
<td>%: 40.0000 - 50.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Monomer</td>
</tr>
</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-11-13

**WARNINGS**
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.

---

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNDISCLOSED</strong></td>
<td>%: 30.0000 - 35.0000</td>
<td>BM-4</td>
<td>None</td>
<td>No</td>
<td>Carrier</td>
</tr>
</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-11-13

**WARNINGS**
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.

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<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNDISCLOSED</strong></td>
<td>%: 15.0000 - 20.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Plasticizer</td>
</tr>
</tbody>
</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-11-13

**WARNINGS**
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%: 3.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Binder</th>
</tr>
</thead>
</table>

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%: 0.5000 - 3.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Plasticizer</th>
</tr>
</thead>
</table>

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%: 0.1000 - 3.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Polymer species</th>
</tr>
</thead>
</table>

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%: 0.0000 - 1.0000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Polymer species</th>
</tr>
</thead>
</table>
### PBT

**HAZARD TYPE:** EC - CEPA DSL  
**WARNINGS:** Persistent, Bioaccumulative and inherently Toxic (PBITH) to humans

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 3.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Coalescent</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**ENDOCRINE**  
**TEDX - Potential Endocrine Disruptors**  
**Potential Endocrine Disruptor**

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

### UCRETE PT2

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0000 - 12.0000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes  
**MATERIAL TYPE:** Polymeric Material

**RESIDUALS AND IMPURITIES NOTES:** All residuals and impurities are considered within the threshold.

**OTHER MATERIAL NOTES:** Ucrete DP System is a flow applied mortar for use in Ucrete HP with flake flooring systems. Ucrete HP / F uses a decorated colored flake aggregate, yielding a slightly textured surface. Ucrete floors are extremely tough and have many physical properties that exceed those of typical concrete.

### POLYMERIC MDI (PMDI)

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>SUBSTANCE ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.0000 - 50.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Intermediate</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

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

**RESTRICTED LIST**  
**US EPA - PPT Chemical Action Plans**  
**EPA Chemical of Concern - Action Plan published**

**RESPIRATORY**  
**US EPA - PPT Chemical Action Plans**  
**Inhalation sensitizer causing asthma and lung damage**

**CANCER**  
**MAK**  
**Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels**

**RESPIRATORY**  
**MAK**  
**Sensitizing Substance Sah - Danger of airway & skin sensitization**
**METHYLENE BISPHENYL DIISOCYANATE (PURE MDI)**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharo Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 30.0000 - 50.0000</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Intermediate</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**RENSPIRATORY**

AOEC - Asthmagens

Asthmagens (G) - generally accepted

**RENSITED LIST**

US EPA - PPT Chemical Action Plans

EPA Chemical of Concern - Action Plan published

**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

**RENSPIRATORY**

EU - GHS (H-Statements)

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**CANCER**

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

**RENSPIRATORY**

US EPA - PPT Chemical Action Plans

Inhalation sensitizer causing asthma and lung damage

**CANCER**

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

**RENSPIRATORY**

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.

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**DIPHENYLMETHANE DIISOCYANATE (MDI) - NON ISOMER SPECIFIC**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharo Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**AGENCY AND LIST TITLES**

**WARNINGS**

**RENSITED LIST**

US EPA - PPT Chemical Action Plans

EPA Chemical of Concern - Action Plan published

**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

**RENSPIRATORY**

EU - GHS (H-Statements)

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**CANCER**

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

**RENSPIRATORY**

US EPA - PPT Chemical Action Plans

Inhalation sensitizer causing asthma and lung damage

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.
**ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH _-HYDRO-_-HYDROXYPOLY( OXY-1,2-ETHANEDIYL)**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 1.0000 - 3.0000</td>
<td>GS: LT-UNK</td>
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<tr>
<td></td>
<td>RC: None</td>
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<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Polymer species</td>
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</tbody>
</table>

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

No warnings found on HPD Priority Hazard Lists

**WARNINGS**

None found

**UNDISCLOSED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
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</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-UNK</td>
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<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Impurity/Residual</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

US EPA - PPT Chemical Action Plans

**WARNINGS**

US EPA Chemical of Concern - Action Plan published

Inhalation sensitizer causing asthma and lung damage

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.

**UCRETE PT 4 COLOR**

<table>
<thead>
<tr>
<th>%: 1.0000 - 3.0000</th>
</tr>
</thead>
</table>

**PRODUCT THRESHOLD:** 1000 ppm

**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**MATERIAL TYPE:** Geologically Derived Material

**RESIDUALS AND IMPURITIES NOTES:** All residuals and impurities have been evaluated for regulatory compliance regardless of threshold reporting.

**OTHER MATERIAL NOTES:** Ucrete Pt 4 Color is provided at 1.1 lbs (0.5 kg) for proper proportioning. The available colors are developed from 6 base colors.

**UNDISCLOSED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 35.0000 - 45.0000</td>
<td>GS: NoGS</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Monomer</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

None found

**AGENCY AND LIST TITLES**

No warnings found on HPD Priority Hazard Lists

**WARNINGS**

None found

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.
CHROMIUM (III) OXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

ID: 1308-38-9

%: 35.0000 - 45.0000
GS: LT-P1
RC: None
NANO: No
SUBSTANCE ROLE: Pigment

HAZARD TYPE: SKIN SENSITIZE
AGENCY AND LIST TITLES: MAK
WARNINGS: Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: All residuals and impurities above the threshold are included.

FERRIC OXIDE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

ID: 1309-37-1

%: 35.0000 - 45.0000
GS: BM-2
RC: None
NANO: No
SUBSTANCE ROLE: Pigment

HAZARD TYPE: CANCER
AGENCY AND LIST TITLES: MAK
WARNINGS: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: All residuals and impurities above the threshold are included.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

%: 20.0000 - 30.0000
GS: LT-UNK
RC: None
NANO: No
SUBSTANCE ROLE: Pigment

HAZARD TYPE: CANCER
AGENCY AND LIST TITLES: MAK
WARNINGS: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

%: 15.0000 - 25.0000
GS: LT-UNK
RC: None
NANO: No
SUBSTANCE ROLE: Polymer species

HAZARD TYPE: None found
AGENCY AND LIST TITLES: WARNINGS
WARNINGS: No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

Ucrete HP/F Systems
hprepository.hpd-collaborative.org
HPD v2.2 created via HPDC Builder Page 11 of 18
## TITANIUM DIOXIDE

**ID:** 13463-67-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
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<tr>
<th>%: 5.0000 - 35.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Pigment</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

| CANCER | MAK | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.

## UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%: 5.0000 - 20.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Pigment</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements

## METHYL SOYATE (HYDROXYFUNCTIONAL CARBOCYCLIC ACID ESTER WITH PIGMENT)

**ID:** 67762-38-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-11-13

<table>
<thead>
<tr>
<th>%: 0.0000 - 2.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Pigment</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.
QUARTZ

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 30.0000
GS: LT-1
RC: None
NANO: No
SUBSTANCE ROLE: Reflectance

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

CANCER
IARC
Group 1 - Agent is Carcinogenic to humans

CANCER
US CDC - Occupational Carcinogens
Occupational Carcinogen

CANCER
CA EPA - Prop 65
Carcinogen - specific to chemical form or exposure route

CANCER
IARC
Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources

CANCER
US NIH - Report on Carcinogens
Known to be Human Carcinogen (respirable size - occupational setting)

CANCER
MAK
Carcinogen Group 1 - Substances that cause cancer in man

CANCER
GHS - New Zealand
6.7A - Known or presumed human carcinogens

CANCER
GHS - Japan
Carcinogenicity - Category 1A [H350]

CANCER
GHS - Australia
H350i - May cause cancer by inhalation

SUBSTANCE NOTES: This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.

C.I. PIGMENT BLUE 15

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 3.0000
GS: BM-3
RC: None
NANO: No
SUBSTANCE ROLE: Pigment

None found

AGENCY AND LIST TITLES

WARNINGS

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: All residuals and impurities above the threshold are included.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2019-11-13

%: 0.0000 - 1.0000
GS: LT-P1
RC: None
NANO: No
SUBSTANCE ROLE: Pigment
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
<tr>
<td>REPRODUCTIVE</td>
<td>GHS - Japan</td>
<td>Toxic to reproduction - Category 1B [H360]</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.

---

**UNDISCLOSED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0000 - 1.0000</td>
<td>GS: LT-P1</td>
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<tr>
<td></td>
<td>RC: None</td>
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<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Pigment</td>
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</tbody>
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<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMMALIAN</td>
<td>US EPA - EPCRA Extremely Hazardous Substances</td>
<td>Extremely Hazardous Substances</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** All residuals and impurities above the threshold are included.

---

**UCRETE FLAKE**

<table>
<thead>
<tr>
<th>%: 0.0000 - 1.0000</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD: 1000 ppm</th>
<th>RESIDUALS AND IMPURITIES CONSIDERED: Yes</th>
<th>MATERIAL TYPE: Geologically Derived Material</th>
</tr>
</thead>
</table>

**RESIDUALS AND IMPURITIES NOTES:** All residuals and impurities have been evaluated for regulatory compliance regardless of threshold reporting.

**OTHER MATERIAL NOTES:** This Ucrete system uses a decorated colored flake aggregate to yield a slightly textured surface.

---

**UNDISCLOSED**

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-11-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 95.0000 - 100.0000</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
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<tr>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE ROLE: Filler</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance was assessed for all hazard classifications within the provisions for North America country regulatory requirements.
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

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>Applicable Facilities</th>
<th>Issue Date</th>
<th>Expiry Date</th>
<th>Certifier or Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party</td>
<td>All Master Builders Solutions</td>
<td>2020-02-13</td>
<td></td>
<td>Berkley Analytical</td>
</tr>
<tr>
<td>Eurofins Indoor Air Comfort GOLD - certified product</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third Party</td>
<td>European facilities</td>
<td>2016-01-26</td>
<td></td>
<td>Eurofins</td>
</tr>
<tr>
<td>Certificate IACG-321-026-01-2016 &quot;Indoor Air Comfort GOLD - certified product&quot; shows additional compliance of product emissions with the criteria of many of the voluntary specifications issued by most relevant ecolabels and similar specifications in the EU. Therefore certified products are those with the best-in-class low emissions, thus good for indoor air quality. The specifications on VOC emissions of these programs are included in the certification: Indoor Air Comfort: Belgian regulation French regulation, A class (or A+ class for indoor Air Comfort GOLD) German regulation, AgBB Draft Lithuanian regulation Planned Swedish regulation E1 classification Indoor Air Comfort GOLD, on top of the above: German DGNB EMICODE GUT (except odor testing) Several EU ecolabel criteria Several Blue Angel criteria Several Austrian ecolabel criteria LEED outside North America FEMB standard for sustainable office furniture BREEAM M1 only partly Danish Indoor Air Climate label (except odor test)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### VOC CONTENT

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>Applicable Facilities</th>
<th>Issue Date</th>
<th>Expiry Date</th>
<th>Certifier or Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-declared</td>
<td>Based on Ucrete production facilities</td>
<td>2015-11-15</td>
<td></td>
<td>Internal Evaluation in Shakopee, MN</td>
</tr>
<tr>
<td>Certificate URL:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Certification and Compliance Notes:** Current results are based on internal testing. Additional external testing using third party facilities is planned.

### OTHER

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>Applicable Facilities</th>
<th>Issue Date</th>
<th>Expiry Date</th>
<th>Certifier or Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Party</td>
<td>Applicable for Halal production facilities</td>
<td>2018-06-07</td>
<td></td>
<td>Halal Certification Europe</td>
</tr>
<tr>
<td>Certificate URL:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Certification and Compliance Notes:** Halal certification is a guarantee that the product meets the requirements of Halal consumers.
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

Additional product information and solutions can be found at https://www.master-builders-solutions.basf.us/en-us/architects-and-designers
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Master Builders Solutions
ADDRESS: 23700 Chagrin Blvd 44122
Beachwood OH 44122, USA

CONTACT NAME: David R Green
TITLE: Manager Sustainability
PHONE: 216-839-7803
EMAIL: david.green@mbcc-group.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

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

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 (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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

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.