

CLASSIFICATION: 03 35 00.00

created via: HPDC Online Builder

**PRODUCT DESCRIPTION:** The Ashford Formula is a zero VOC, chemically reactive concrete sealer, hardener and dustproof. This deep penetrating sealer chemically reacts with the concrete forming a crystalline structure within the concrete pore, filling the pore, and solidifying the concrete into a densified mass. This reaction chemically hardens the concrete surface, rendering it abrasion resistant, dust-free and resistant to the penetration of surface contaminants. The results are permanent. No re-treatment is required. Ashford Formula does not contribute to Alkali Silicate Reaction (ASR). The chemical identity of the proprietary components have been withheld to preserve the intellectual property rights of Curecrete Distribution, Inc. However, the full CAS numbers have been entered into the HPD database which is verified by the WECRS Green tool. The quantity of each proprietary chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is nontoxic and the hazardous properties of the proprietary chemicals are undetectable and not relevant to the product as supplied or used. All chemical hazards are listed and have been disclosed.

## Section 1: Summary

## Nested 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

Residuals/Impurities Considered in 1 of 1 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes  No

Are All Substances Above the Threshold Indicated:

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

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

**Identified**  Yes  No  
Name and Identifier Provided?

### 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

ASHFORD FORMULA [ WATER (WATER) **BM-4** SODIUM SILICATE (SODIUM SILICATE) **LT-P1** | END SODIUM METASILICATE NONAHYDRATE (SODIUM METASILICATE NONAHYDRATE) **LT-UNK** TRACER **NoGS** | REAGENT **NoGS** | MAM | SKI **PROPRIETARY CATALYST** **NoGS** | MAM | SKI | MUL ]

Number of Greenscreen BM-4/BM3 contents..... 1  
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-P1  
Nanomaterial..... No

### INVENTORY AND SCREENING NOTES:

No known residuals exist from the manufacturing of this product or based on the Chemical Suppliers MSDS sheets.

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

### CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: VOC Emission Test Certificate

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes  
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-08-17

PUBLISHED DATE: 2017-09-15

EXPIRY DATE: 2020-08-17

## 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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### ASHFORD FORMULA

%: 100.0000 - 100.0000

HPD URL: <http://www.ashfordformula.com>

PRODUCT THRESHOLD: Per OSHA MSDS

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The Ashford Formula is a proprietary concrete densifier and sealer. Because of trade secrets, the process and certain chemical names have been withheld.

OTHER MATERIAL NOTES: Ashford Formula is a zero VOC, chemically reactive concrete sealer, hardener and dustproof. This deep penetrating sealer chemically reacts with the concrete forming a crystalline structure within the concrete pore, filling the pore, and solidifying the concrete into a densified mass. This reaction chemically hardens the concrete surface, rendering it abrasion resistant, dustfree and resistant to the penetration of surface contaminants. The results are permanent. No retreatment is required. Ashford Formula does not contribute to Alkali Silicate Reaction (ASR). The chemical identity of the proprietary components have been withheld to preserve the intellectual property rights of Curecrete Distribution, Inc. However, the full CAS numbers have been entered into the HPD database which is verified by the WECRS Green tool. The quantity of each proprietary chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is nontoxic and the hazardous properties of the proprietary chemicals are undetectable and not relevant to the product as supplied or used. All chemical hazards are listed and have been disclosed.

#### WATER (WATER)

ID: 7732-18-5

%: 45.0000 - 70.0000

GS: BM-4

RC: None

NANO: No

ROLE: Carrier

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Water: Carrier

#### SODIUM SILICATE (SODIUM SILICATE)

ID: 1344-09-8

%: 15.0000 - 35.0000

GS: LT-P1

RC: None

NANO: No

ROLE: Reactive Concrete Modifier

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Sodium Silicate: Reactive Concrete Modifier

#### SODIUM METASILICATE NONAHYDRATE (SODIUM METASILICATE NONAHYDRATE)

ID: 13517-24-3

%: 0.1000 - 0.9000

GS: LT-UNK

RC: None

NANO: No

ROLE: Reactive Concrete Modifier

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Reactive Concrete Modifier

### TRACER

ID: **Undisclosed**

#: **0.0000 - 0.0500**      GS: **NoGS**      RC: **None**      NANO: **No**      ROLE: **Tracer**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
POSITIVE LIST	German FEA - Substances Hazardous to Waters      Non-Hazardous to Water (Water Hazard Class 0 NWG)

SUBSTANCE NOTES: Tracer used to verify authenticity of the product

### REAGENT

ID: **Undisclosed**

#: **0.0000 - 0.0500**      GS: **NoGS**      RC: **None**      NANO: **No**      ROLE: **Reagent**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases      R25 - Toxic if Swallowed
SKIN IRRITATION	EU - GHS (H-Statements)      H315 - Causes skin irritation

SUBSTANCE NOTES: 0-0.05% The chemical identity has been withheld to preserve the intellectual proprietary rights of Curecrete Distribution, Inc However we have verified the chemicals with the HPD Database which is verified by the WECRS Green Tool. The quantities of chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is non-corrosive and the hazardous properties of this chemical is undetectable and not relevant to the product as supplied or used.

### PROPRIETARY CATALYST

ID: **Undisclosed**

#: **0.0000 - 0.0050**      GS: **NoGS**      RC: **None**      NANO: **No**      ROLE: **Proprietary Catalyst**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases      R25 - Toxic if Swallowed
SKIN IRRITATION	EU - GHS (H-Statements)      H314 - Causes severe skin burns and eye damage
RESTRICTED LIST	German FEA - Substances Hazardous to Waters      Class 2 - Hazard to Waters

SUBSTANCE NOTES: 0-0.005% The chemical identity has been withheld to preserve the intellectual proprietary rights of Curecrete Distribution, Inc However we have verified the chemicals with the HPD Database which is verified by the WECRS Green Tool. The quantities of chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is non-corrosive and the hazardous properties of this chemical is undetectable and not relevant to the product as supplied or used

## 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	VOC Emission Test Certificate		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-06-	EXPIRY DATE:	CERTIFIER OR LAB: Berkeley
APPLICABLE FACILITIES: Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350) Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard: Exposure Scenario1 Individual VOCs of Concern2 Formaldehyde3 TVOC4 Criterion Compliant? Criterion Compliant? Range School Classroom $\leq 1/2$ Chronic REL YES $\leq 9.0 \mu\text{g}/\text{m}^3$ YES $\leq 0.5 \text{ mg}/\text{m}^3$ Private Office $\leq 1/2$ Chronic REL YES $\leq 9.0 \mu\text{g}/\text{m}^3$ YES $\leq 0.5 \text{ mg}/\text{m}^3$ Product Coverage5: 253 grams/square meter 1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.2-2017) 2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (ibid.) 3. Maximum allowable formaldehyde concentration is $\leq 9 \mu\text{g}/\text{m}^3$ , effective Jan 1, 2012; previous limit was $\leq 16.5 \mu\text{g}/\text{m}^3$ (ibid.) 4. Informative only; predicted TVOC Range in three categories, i.e., $\leq 0.5 \text{ mg}/\text{m}^3$ , $> 0.5 - 4.9 \text{ mg}/\text{m}^3$ , and $\geq 5.0 \text{ mg}/\text{m}^3$ 5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate	07		Analytical
CERTIFICATE URL: <a href="http://ashfordformula.com/wp-content/uploads/Ashford-Formula-LEED-V-4-CDPH-1.2-2017-Indoor-Emission-Testing-Certificate.pdf">http://ashfordformula.com/wp-content/uploads/Ashford-Formula-LEED-V-4-CDPH-1.2-2017-Indoor-Emission-Testing-Certificate.pdf</a>			
CERTIFICATION AND COMPLIANCE NOTES: Narrative: Curecrete Distribution, Inc. selected a sample representative of its Ashford Formula product and submitted it on 5/18/2017 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 948-001-01A-Jun0917.			

## 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

Ashford Formula is a zero VOC, chemically reactive concrete sealer, hardener and dustproof. This deep penetrating sealer chemically reacts with the concrete forming a crystalline structure within the concrete pore, filling the pore, and solidifying the concrete into a densified mass. This reaction chemically hardens the concrete surface, rendering it abrasion resistant, dustfree and resistant to the penetration of surface contaminants. The results are permanent. No retreatment is required. Ashford Formula does not contribute to Alkali Silicate Reaction (ASR). The chemical identity of the proprietary components have been withheld to preserve the intellectual property rights of Curecrete Distribution, Inc. However, the full CAS numbers have been entered into the HPD database which is verified by the WECRS Green tool. The quantity of each proprietary chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is nontoxic and the hazardous properties of the proprietary chemicals are undetectable and not relevant to the product as supplied or used. All chemical hazards are listed and have been disclosed.

## Section 6: References

### MANUFACTURER INFORMATION

MANUFACTURER: **Curecrete Chemical Company, Inc.**

ADDRESS: **1203 West Spring Creek Place  
Springville UT 84663, USA**

WEBSITE: **<http://www.ashfordformula.com>**

CONTACT NAME: **Dave Hoyt**

TITLE: **Technical Director**

PHONE: **801-489-5663**

EMAIL: **[dave.hoyt@ashfordformula.com](mailto:dave.hoyt@ashfordformula.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

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

### GreenScreen (GS)

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

### Recycled Types

**PreC** Preconsumer (Post-Industrial)  
**PostC** Postconsumer  
**Both** Both Preconsumer and Postconsumer  
**Unk** Inclusion of recycled content is unknown

## 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.*