

CLASSIFICATION: 09 91 00 Finishes: Painting

PRODUCT DESCRIPTION: The Acro Pure line of products is a wall coating system that is easy to use, easy to clean, and safer for the environment. Using an advanced Ultra-Low VOC resin formulated specifically for Miller Paint, Acro Pure creates a lasting finish that will stand up to the rigors of daily life. A responsible alternative to conventional interior paints, it can be used anywhere a standard wall paint can be used. Acro Pure is a great choice in homes, commercial and industrial spaces, and healthcare environments. Recommended for use on properly prepared and primed or previously painted drywall, plaster, masonry, wood, and metal surfaces. This HPD covers Acro Pure Ultra Low VOC Interior Satin in White.

Section 1: Summary

Nested Method / Material 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

ACRO PURE ULTRA LOW VOC INTERIOR SATIN | WATER BM-4 | TITANIUM DIOXIDE LT-1 | CAN | END ACRYLIC POLYMER LT-UNK | POLYMER BINDER LT-UNK | LIMESTONE; CALCIUM CARBONATE LT-UNK | KAOLIN CLAY LT-UNK | CAN STYRENE/ACRYLIC COPOLYMER LT-UNK | COALESCING AGENT LT-UNK | ALUMINUM OXIDE LT-P1 | RES HYDROXYETHYL CELLULOSE LT-P1 | END AMMONIUM POLYACRYLATE COPOLYMER NoGS | HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL), CONTAINING LESS THAN 3% DMSO AS MEASURED BY IP 346 LT-UNK | SEPIOLITE LT-UNK | CAN POLYGLYCOL LT-UNK | POLYURETHANE RESIN NoGS | BINDER SURFACTANT LT-UNK | BINDER COMPONENT 1 LT-UNK | BINDER COMPONENT 2 LT-UNK | ALCOHOLS, C6-10, ETHOXYLATED PROPOXYLATED NoGS | SILICA, AMORPHOUS LT-P1 | CAN THICKENER NoGS | BINDER COMPONENT 3 LT-P1 | END | MUL AMMONIUM HYDROXIDE LT-P1 | RES | AQU | SKI | MUL BINDER RESIDUAL NoGS | ZIRCONIUM DIOXIDE LT-P1 | CAN]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD is consistent with the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 1 g/L Regulatory (g/l): 3 g/L

Does the product contain exempt VOCs: No

Are ultra-low VOC tints available: Yes

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method – Not tested

VOC content: ASTM Method D-6886

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes

PREPARER: Elixir Environmental

VERIFIER:

SCREENING DATE: 2018-10-17

PUBLISHED DATE: 2018-10-22



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

ACRO PURE ULTRA LOW VOC INTERIOR SATIN

#: 100.0000 - 100.0000

HPD URL:

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Material ingredient information is representative of Acro Pure Ultra Low VOC Interior Satin in white.

WATER

ID: 7732-18-5

#: 50.0000 - 50.7000 GS: BM-4 RC: None NANO: No ROLE: Solvent, Diluent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-4 was provided by the HPD Builder Tool.

TITANIUM DIOXIDE

ID: 13463-67-7

#: 16.5000 - 17.4000 GS: LT-1 RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

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: US EPA - DfE SCIL - Green Circle - Verified Low Concern. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Titanium Dioxide. The Material Health

Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" (<http://ow.ly/Z5ken>).

ACRYLIC POLYMER

ID: **Undisclosed**

#: **9.0000 - 9.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

POLYMER BINDER

ID: **Undisclosed**

#: **7.7000 - 8.1000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Binder Resin**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

LIMESTONE; CALCIUM CARBONATE

ID: **1317-65-3**

#: **6.3000 - 6.6000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Filler, Extender**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: US EPA - DfE SCIL - Green Circle - Verified Low Concern

KAOLIN CLAY

ID: **1332-58-7**

#: **2.3000 - 2.4000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Filler, Extender**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: US EPA - DfE SCIL - Green Circle - Verified Low Concern

STYRENE/ACRYLIC COPOLYMER

ID: **Undisclosed**

%: 1.4000 - 1.5000

GS: LT-UNK

RC: None

NANO: No

ROLE: Opaque Polymer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

COALESCING AGENT

ID: **Undisclosed**

%: 0.9000 - 1.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Coalescent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement; substance to remain proprietary. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

ALUMINUM OXIDE

ID: **1344-28-1**

%: 0.5000 - 1.2000

GS: LT-P1

RC: None

NANO: No

ROLE: Pigments and Related Additives

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

HYDROXYETHYL CELLULOSE

ID: **9004-62-0**

%: 0.4000 - 0.5000

GS: LT-P1

RC: None

NANO: No

ROLE: Thickener

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: US EPA - DfE SCIL - Green Circle - Verified Low Concern. May also include Cetylhydroxyethylcellulose (80455-45-4; LT-UNK; No warnings found on HPD Priority Hazard lists).

AMMONIUM POLYACRYLATE COPOLYMER

ID: **Undisclosed**

%: 0.4000 - 0.5000

GS: NoGS

RC: None

NANO: No

ROLE: Dispersant; Surfactant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES (MINERAL OIL), CONTAINING LESS THAN 3% DMSO AS MEASURED BY IP 346

ID: 64742-54-7

RC: **None** NANO: **No** ROLE: **Defoaming Agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: DMSO content confirmed by supplier.

SEPIOLITE

ID: 63800-37-3

RC: **None** NANO: **No** ROLE: **Thickener**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

POLYGLYCOL

ID: **Undisclosed**

RC: **None** NANO: **No** ROLE: **Defoaming Agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

POLYURETHANE RESIN

ID: **Undisclosed**

RC: **None** NANO: **No** ROLE: **Thickener**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

BINDER SURFACTANTID: **Undisclosed**

%: 0.1000 - 0.2000	GS: LT-UNK	RC: None	NANO: No	ROLE: Surfactant
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

BINDER COMPONENT 1ID: **Undisclosed**

%: 0.1000 - 0.2000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder Surfactant
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

BINDER COMPONENT 2ID: **Undisclosed**

%: 0.1000 - 0.2000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder Surfactant
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

ALCOHOLS, C6-10, ETHOXYLATED PROPOXYLATEDID: **68987-81-5**

%: 0.1000 - 0.2000	GS: NoGS	RC: None	NANO: No	ROLE: Dispersant; Surfactant
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: US EPA - DfE SCIL - Green Circle - Verified Low Concern

SILICA, AMORPHOUSID: **7631-86-9**

%: 0.1000 - 0.5000	GS: LT-P1	RC: None	NANO: No	ROLE: Pigments and Related Additives
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

SUBSTANCE NOTES:

THICKENERID: **Undisclosed**

#: **0.0100 - 0.1000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Thickener**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

BINDER COMPONENT 3ID: **Undisclosed**

#: **0.0100 - 0.1000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Binder Component**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

ChemSec - SIN List

Endocrine Disruption

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 3 - Severe Hazard to Waters

3rd Party Screened

SUBSTANCE NOTES: Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

AMMONIUM HYDROXIDEID: **1336-21-6**

#: **0.0100 - 0.1000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **pH Stabilizer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rr&Rs) - irritant-induced & sensitizer-induced

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES:

BINDER RESIDUALID: **Undisclosed**

%: Impurity/Residual	GS: NoGS	RC: None	NANO: No	ROLE: Impurity/Residual
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

3rd Party Screened

SUBSTANCE NOTES: Potential residual monomer of binder, as per supplier disclosure statement. Supplier has shared substance name and CASRN under the terms of a non-disclosure agreement with third-party consultant; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.

ZIRCONIUM DIOXIDEID: **1314-23-4**

%: 0.0100 - 0.2000	GS: LT-P1	RC: None	NANO: No	ROLE: Pigments and Related Additives
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER**MAK**

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

SUBSTANCE NOTES:

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

CDPH Standard Method – Not tested

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

09-01

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **VOC Emissions Testing has not been performed. VOC Content test results have been provided, as required for wet-applied products.**

VOC CONTENT

ASTM Method D-6886

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2009-**

EXPIRY DATE:

CERTIFIER OR LAB: **Cal Poly**

APPLICABLE FACILITIES: **All**

01-12

Polymers and Coatings

CERTIFICATE URL:

Laboratory

CERTIFICATION AND COMPLIANCE NOTES: **Analysis: VOC analysis of four paint samples done using ASTM Method D-6886 Solvent used: acetone Internal standard: ethylene glycol diethyl ether (EGDE). Material VOC: 1 g/L. Coating VOC: 3 g/L.**

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



MANUFACTURER INFORMATION

MANUFACTURER: **Miller Paint**

ADDRESS: **12812 NE Whitaker Way**

Portland OR 97230, USA

WEBSITE: **www.millerpaint.com**

CONTACT NAME: **Samuel Hampson**

TITLE: **Coatings Specification Manager**

PHONE: **206.261.1958**

EMAIL: **samuel.hampson@millerpaint.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)

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

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.