## Formawall Dimension Series by CENTRIA

## Health Product Declaration v2.1

CLASSIFICATION: CSI Section: 07 42 13 Insulated Metal Wall Panels

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Formawall Dimension Series insulated metal panels combine thermal efficiency and moisture control into one product. Dimension Series panels consist of a polyisocyanurate foam core in between a painted galvanized steel face and liner. The pressure-equalized joinery acts as the primary air, water, and vapor barrier for the wall assembly. Panel thickness, panel width, and liner gage vary on a project-by-project basis; therefore, ratios of ingredients will also vary.

# 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 3 of 3 Materials

**Explanation(s) provided for Residuals/Impurities?**

(●) Yes ( ) No

*Are All Substances Above the Threshold Indicated:*

**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

GALVANIZED STEEL LINERS [ STEEL (STEEL) NoGS ZINC (ZINC) LT-P1 | AQU | END | MUL | PHY ] POLYISOCYANURATE FOAM INSULATION [ POLYISOCYANURATE FOAM NoGS FIRE RETARDANT 2 NoGS CYCLOPENTANE (CYCLOPENTANE) LT-UNK | AQU | PHY ISOPENTANE (ISOPENTANE) LT-P1 | AQU | MAM | MUL | PHY POTASSIUM SALT NoGS N-PENTANE LT-P1 | AQU | MAM | MUL | PHY ] NON-CURING BUTYL SEALANT [ KAOLIN CLAY (CLAY) LT-UNK | CAN LIMESTONE; CALCIUM CARBONATE (CALCIUM CARBONATE) LT-UNK STODDARD SOLVENT (STODDARD SOLVENT) LT-1 | CAN | GEN | MAM | MUL *RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED (RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED)* LT-1 | CAN | PBT | MUL DISTILLATE FUEL OILS, LIGHT (DISTILLATE FUEL OILS, LIGHT) BM-2 | MAM | CAN TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END QUARTZ (CRYSTALLINE SILICA/SILICA SAND) LT-1 | CAN NONANE (NONANE) LT-P1 | END 1,2,4-TRIMETHYLBENZENE (1,2,4-TRIMETHYLBENZENE) BM-2 | MAM | EYE | SKI | AQU | MUL ]

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

### INVENTORY AND SCREENING NOTES:

Galvanized steel face and liner are protected from the elements with a PVDF paint and primer coating. Due to the wide variety of colors, thicknesses, and types of finishes offered, this HPD does not consider paints, finishes, or coatings in the materials listed. Coating ingredients can be determined on a project-by-project basis once a specific finish is determined. Any coating applied to the surfaces of these panels is coil-applied prior to the forming of the panel; as a result, no VOCs are generated at the job site due to field-painting operations. VOC content shown in Section 1 is produced by the non-curing butyl sealant used in the side-joinery and at perimeter seals. Please contact CENTRIA for more information.

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 155 Regulatory (g/l): 151
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

### CERTIFICATIONS AND COMPLIANCE

*See Section 3 for additional listings.*

Other: Environmental Product Declaration (EPD)

#### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- ( ) Yes
- (●) No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-11-03
PUBLISHED DATE: 2017-11-07
EXPIRY DATE: 2020-11-03

# 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*

## GALVANIZED STEEL LINERS **%: 72.8200 - 90.9700** **HPD URL: None Available**

MATERIAL THRESHOLD: Per GHS SDS RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: G90 galvanized steel may contain trace amounts of impurities and other residual metals from recycling processes.

OTHER MATERIAL NOTES: Recycled content of steel only is 19.8% post-consumer, 14.4% pre-consumer per the latest data from the Steel Recycling Institute. The overall total recycled content of the panel will vary based on panel thickness, panel module, and liner gages.

### STEEL (STEEL) ID: **12597-69-2**

%: **99.9000 - 100.0000** GS: **NoGS** RC: **Both** NANO: **No** ROLE: **Steel Alloy**

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

SUBSTANCE NOTES: See material description for recycled content percentages. The overall total recycled content of the panel will vary based on panel thickness, panel module, and liner gages. Steel consists of metal alloys with the following CAS numbers: 7439-89-6, 7439-96-5, 7440-47-3, 7440-21-3, 7440-02-0, 7440-62-2, and 7440-44-0.

### ZINC (ZINC) ID: **7440-66-6**

%: **0.0000 - 0.1000** GS: **LT-P1** RC: **Both** NANO: **No** ROLE: **Galvanized coating of steel**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| 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 |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H250 - Catches fire spontaneously if exposed to air |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H260 - In contact with water releases flammable gases which may ignite spontaneously |

SUBSTANCE NOTES: See material notes for recycled content of steel.

## POLYISOCYANURATE FOAM INSULATION

**%: 8.5500 - 26.9800** **HPD URL: None Available**

MATERIAL THRESHOLD: Other RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No halogen-based ingredients are intentionally added to the foam mixture. Prior to the foam reaction during panel manufacturing, ingredients are mixed in liquid form within tanks. The final product may contain trace residuals of halogenated compounds remaining from previous products mixed in the same tank.

OTHER MATERIAL NOTES: Polyisocyanurate foam free of intentionally-added halogenated compounds. This particular foam blend was created uniquely for this product; therefore, no specific CAS# is applicable. The closest resemblance is CAS# 27026-93-3. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

### POLYISOCYANURATE FOAM

ID: **Not Registered**

%: **84.2300 - 90.2500** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Foam Core**

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

SUBSTANCE NOTES: Polyisocyanurate foam free of intentionally-added halogenated compounds. This particular foam blend was created uniquely for this product; therefore, no specific CAS# is applicable. The closest resemblance is CAS# 27026-93-3. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

### FIRE RETARDANT 2

ID: **Unknown**

%: **5.1000 - 10.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Fire Retardant**

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

SUBSTANCE NOTES: Proprietary non-halogenated fire retardant. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

### CYCLOPENTANE (CYCLOPENTANE)

ID: **287-92-3**

%: **2.6950 - 2.9050** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Blowing Agent**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| ACUTE AQUATIC | EU - R-phrases | R52 - Harmful to Aquatic Organisms |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H225 - Highly flammable liquid and vapour |

SUBSTANCE NOTES: Ingredient in blowing agent component of foam system. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

### ISOPENTANE (ISOPENTANE)

ID: **78-78-4**

%: **1.1550 - 1.2450** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Blowing Agent**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| CHRON AQUATIC | EU - GHS (H-Statements) | H411 - Toxic to aquatic life with long lasting effects |
| MAMMALIAN | EU - GHS (H-Statements) | H304 - May be fatal if swallowed and enters airways |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H224 - Extremely flammable liquid and vapour |

SUBSTANCE NOTES: Ingredient in blowing agent component of foam system. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

### POTASSIUM SALT

ID: **Unknown**

%: **0.8000 - 1.4000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Catalyst**

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

SUBSTANCE NOTES: Component of polyol blend that remains after the foam reaction. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

### N-PENTANE

ID: **109-66-0**

%: **0.0000 - 0.2200** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Blowing Agent**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| ACUTE AQUATIC | EU - R-phrases | R51 - Toxic to Aquatic Organisms |
| CHRON AQUATIC | EU - GHS (H-Statements) | H411 - Toxic to aquatic life with long lasting effects |
| MAMMALIAN | EU - GHS (H-Statements) | H304 - May be fatal if swallowed and enters airways |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H225 - Highly flammable liquid and vapour |

SUBSTANCE NOTES: Ingredient in blowing agent component of foam system. Approximate percentage amounts of substances of the post-reaction foam were derived from reaction chemistry.

## NON-CURING BUTYL SEALANT

**%: 0.0870 - 2.2700** **HPD URL: None Available**

MATERIAL THRESHOLD: Per GHS SDS

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residual oils may contain petroleum.

OTHER MATERIAL NOTES: Material percentages only account for factory-installed butyl located in the panel joinery. Actual amount of butyl used in the field may be higher depending on project-specific sealing conditions. VOC content of sealant given in Product VOC Content Data in Section 1 above.

## KAOLIN CLAY (CLAY)

ID: **1332-58-7**

%: **30.0000 - 60.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## LIMESTONE; CALCIUM CARBONATE (CALCIUM CARBONATE)

ID: **1317-65-3**

%: **15.0000 - 40.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

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

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## STODDARD SOLVENT (STODDARD SOLVENT)

ID: **8052-41-3**

%: **7.0000 - 13.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| CANCER | EU - R-phrases | R45 - May cause cancer |
| GENE MUTATION | EU - R-phrases | R46 - May cause heritable genetic damage |
| MAMMALIAN | EU - GHS (H-Statements) | H304 - May be fatal if swallowed and enters airways |
| GENE MUTATION | EU - GHS (H-Statements) | H340 - May cause genetic defects |
| CANCER | EU - GHS (H-Statements) | H350 - May cause cancer |
| ORGAN TOXICANT | EU - GHS (H-Statements) | H372 - Causes damage to organs through prolonged or repeated exposure |
| CANCER | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| GENE MUTATION | EU - REACH Annex XVII CMRs | Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| CANCER | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| GENE MUTATION | EU - Annex VI CMRs | Mutagen - Category 1B |
| GENE MUTATION | Malaysia - GHS | H340 - May cause genetic defects |
| CANCER | Malaysia - GHS | H350 - May cause cancer |

| | | |
|---|---|---|
| GENE MUTATION | Australia - GHS | H340 - May cause genetic defects |
| CANCER | Australia - GHS | H350 - May cause cancer |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED (RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED)

ID: **64742-62-7**

%: **Impurity/Residual** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| CANCER | EU - R-phrases | R45 - May cause cancer |
| PBT | EC - CEPA DSL | Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans |
| CANCER | EU - GHS (H-Statements) | H350 - May cause cancer |
| CANCER | EU - REACH Annex XVII CMRs | Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man |
| MULTIPLE | ChemSec - SIN List | CMR - Carcinogen, Mutagen &/or Reproductive Toxicant |
| CANCER | EU - Annex VI CMRs | Carcinogen Category 1B - Presumed Carcinogen based on animal evidence |
| CANCER | Australia - GHS | H350 - May cause cancer |

SUBSTANCE NOTES: Residual ingredient in non-curing butyl sealant.

## DISTILLATE FUEL OILS, LIGHT (DISTILLATE FUEL OILS, LIGHT)

ID: **64742-47-8**

%: **1.0000 - 5.0000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| MAMMALIAN | EU - GHS (H-Statements) | H304 - May be fatal if swallowed and enters airways |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: **13463-67-7**

%: **1.0000 - 5.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |

| | | |
|---|---|---|
| CANCER | MAK | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value |
| 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 |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## QUARTZ (CRYSTALLINE SILICA/SILICA SAND)

ID: **14808-60-7**

%: **0.5000 - 1.5000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| 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 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 | New Zealand - GHS | 6.7A - Known or presumed human carcinogens |
| CANCER | Australia - GHS | H350 - May cause cancer |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## NONANE (NONANE)

ID: **111-84-2**

%: **0.1000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## 1,2,4-TRIMETHYLBENZENE (1,2,4-TRIMETHYLBENZENE)

ID: **95-63-6**

%: **0.1000 - 1.0000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Component of non-curing butyl**

| HAZARDS: | AGENCY(IES) WITH WARNINGS: | |
|---|---|---|
| MAMMALIAN | EU - R-phrases | R20 - Harmful by Inhalation (gas or vapor or dust/mist) |

| | | |
|---|---|---|
| EYE IRRITATION | EU - R-phrases | R36 - Irritating to eyes |
| SKIN IRRITATION | EU - R-phrases | R38 - Irritating to skin |
| ACUTE AQUATIC | EU - R-phrases | R51 - Toxic to Aquatic Organisms |
| CHRON AQUATIC | EU - GHS (H-Statements) | H411 - Toxic to aquatic life with long lasting effects |
| SKIN IRRITATION | EU - GHS (H-Statements) | H315 - Causes skin irritation |
| EYE IRRITATION | EU - GHS (H-Statements) | H319 - Causes serious eye irritation |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |

SUBSTANCE NOTES: Ingredient in non-curing butyl sealant.

## 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.*

### OTHER — Environmental Product Declaration (EPD)

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Applies to Formawall Dimension Series panels manufactured in Sheridan, AR.
CERTIFICATE URL:
https://spot.ulprospector.com/en/na/BuiltEnvironment/Detail/31685/683268/Formawall-Dimension-Series?st=1&sl=52713287&crit=a2V5d29yZDpbY2VudHJpYV0%3d&ss=2&k=centria&t=centria

ISSUE DATE: 2014-08-01
EXPIRY DATE: 2019-08-01
CERTIFIER OR LAB: UL Environment

CERTIFICATION AND COMPLIANCE NOTES: Environmental Product Declaration (EPD) developed in accordance with ISO 14025.

## 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.*

### ALUMINUM EXTRUSIONS

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Extrusions used at base, head, sill, and jamb conditions are made from 6063-T5 alloy aluminum. Type and amount of extrusions is dependent on job-specific conditions. Approximate recycled content is 30.5% post-consumer, 35.4% pre-consumer.

### GALVANIZED STEEL CLIPS

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Clips used for attaching panels to support substrate made of bare G90 galvanized steel. Approximate recycled content is 19.8% post-consumer, 14.4% pre-consumer per latest Steel Recycling Institute data.

**304 SERIES STAINLESS STEEL FASTENERS** HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Fasteners used to attach panels through clips to support substrate. Standard fasteners are 304 Series stainless steel, but alternate fasteners may be used if reviewed and approved by CENTRIA. Amount of fasteners required for attachment is dependent on project-specific conditions.

## Section 5: General Notes

Galvanized steel face and liner are protected from the elements with a PVDF paint and primer coating. Due to the wide variety of colors, thicknesses, and types of finishes offered, this HPD does not consider paints, finishes, or coatings in the materials listed. Coating ingredients can be determined on a project-by-project basis once a specific finish is determined. Any coating applied to the surfaces of these panels is coil-applied prior to the forming of the panel; as a result, no VOCs are generated at the job site due to field-painting operations. VOC content shown in Section 1 is produced by the non-curing butyl sealant used in the side-joinery and at perimeter seals. Please contact CENTRIA for more information.

## Section 6: References

### MANUFACTURER INFORMATION

MANUFACTURER: **CENTRIA**
ADDRESS: **1005 Beaver Grade Rd.**
**Moon Township Pennsylvania 15108, United States**
WEBSITE: **1005 Beaver Grade Rd.**

CONTACT NAME: **Steve Marziale**
TITLE: **Engineer II**
PHONE: **4122998193**
EMAIL: **samarziale@centria.com**

### KEY

**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet
**GHS SDS** Globally Harmonized System of Classi cation 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 Unspeci ed (insu cient 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 produc

**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.*