

CLASSIFICATION: 08 90 00

created via: HPDC Online Builder

PRODUCT DESCRIPTION: This HPD was based on a model 653XP storm performance louver, 4'0" x 4'0". These products are custom-sized but the material ingredients are the same regardless of size.

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 3 of 4 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

6063 ALUMINUM EXTRUSION [6063 ALUMINUM (6063 ALUMINUM) **LT-P1** | RES | END | PHY] TYPE 3003 ALUMINUM [3003-H14 ALUMINUM (3003-H14 ALUMINUM) **LT-P1** | RES | PHY | END] FLUOROPON PURE - EXTRUSION [POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) **LT-UNK** | TITANIUM DIOXIDE **LT-1** | CAN | END ACRYLIC RESIN **NoGS** 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE **LT-P1** | END BARIUM SULFATE **BM-2** | CAN ACRYLIC-MELAMINE RESIN **NoGS** TRIPHOSPHORIC ACID, ALUMINUM SALT **LT-UNK** STRONTIUM CARBONATE **LT-UNK** SILICA, AMORPHOUS **LT-P1** | CAN ALUMINIUM HYDROXIDE OXIDE **LT-UNK** WOLLASTONITE **LT-UNK** ZINC 5-NITROISOPHTHALATE **LT-UNK** ALUMINA TRIHYDRATE **BM-2** | RES CELLULOSE ACETATE BUTANOATE, AVERAGE MOLECULAR WEIGHT 15000 - 65000 G/MOL **LT-UNK** FUMED SILICA, CRYSTALLINE-FREE **LT-UNK** IRON HYDROXIDE OXIDE YELLOW **LT-UNK** CHROMIUM IRON OXIDE **LT-UNK** CHROMIUM (III) OXIDE **LT-P1** FERRIC OXIDE **BM-2** | CAN CARBON BLACK **LT-1** | CAN C.I. PIGMENT BLUE 28 **LT-UNK** 5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE **LT-UNK** PHthalocyanine GREEN **LT-UNK** 5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE **LT-UNK** BISMUTH VANADIUM TETRAOXIDE **LT-P1** | MUL C.I. PIGMENT BLUE 15 **BM-3** PYRROLO[3,4-C]PYRROLE-1,4-DIONE,3,6-BIS(4-CHLOROPHENYL)-2,5-DIHYDRO- **LT-UNK** C.I. PIGMENT GREEN 50 **LT-1** | RES | CAN | GEN RUTILE, ANTIMONY CHROMIUM BUFF **LT-UNK** C.I. PIGMENT BLACK 28 **LT-UNK** C.I. PIGMENT BLUE 36 **LT-UNK** HEMATITE, CHROMIUM GREEN BLACK **LT-UNK** MOLYBDATE (MOO42#-), CALCIUM (1:1), (T-4)- **LT-UNK** NICKEL RUTILE YELLOW **LT-UNK** 2-(2-BUTOXYETHOXY)ETHANOL **LT-P1** | EYE | END] 18-8 TYPE 304 STAINLESS FASTENERS [304 STAINLESS STEEL (304 STAINLESS STEEL) **NoGS**]

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:

Inventory weights are based on a 4'0" x 4'0" louver with a two-coat Kynar finish, Valspar's Fluoropon Pure. Note that the product includes a deliberately added sealant that is not present in the product at 1000 ppm.

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: N/A
Multi-attribute: ILFI Declare - LBC Compliant

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified? PREPARER: Self-Prepared

SCREENING DATE: 2017-10-13

- Yes
- No

VERIFIER: WAP Sustainability Consulting
VERIFICATION #: zPr-3665

PUBLISHED DATE: 2018-03-01
EXPIRY DATE: 2020-10-13

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

6063 ALUMINUM EXTRUSION

%: 92.9354 - 92.9354

HPD URL: No HPD Available

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Potential residuals for the aluminum extrusions include pre-wash and pre-treat chemicals that ensure paint adhesion. The maximum amount of residual material was considered and is less than 1000ppm. Residuals present at 100ppm would be encapsulated in cured finish. Aluminum extrusions include both pre-and post-consumer recycled content as well as virgin material. Amounts of each vary by lot.

OTHER MATERIAL NOTES: Residuals are added as ingredients in the final product.

6063 ALUMINUM (6063 ALUMINUM)

ID: 7429-90-5

%: 100.0000 - 100.0000

GS: LT-P1

RC: Both

NANO: No

ROLE: Extruded Aluminum Blades

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: Potential residuals for the aluminum extrusions include pre-wash and pre-treat chemicals that ensure paint adhesion. The maximum amount of residual material was considered and is less than 1000ppm. Residuals present at 100ppm would be encapsulated in cured finish. Aluminum extrusions include both pre-and post-consumer recycled content as well as virgin material. Amounts of each vary by lot.

TYPE 3003 ALUMINUM

%: 4.5920 - 4.5920

HPD URL: No HPD Available

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Potential residuals for the aluminum extrusions include pre-wash and pre-treat chemicals that ensure paint adhesion. The maximum amount of residual material was considered and is less than 1000ppm. Residuals present at 100ppm would be encapsulated in cured finish. Aluminum extrusions include both pre-and post-consumer recycled content as well as virgin material. Amounts of each vary by lot.

OTHER MATERIAL NOTES: Possible residuals are added as separate substances.

3003-H14 ALUMINUM (3003-H14 ALUMINUM)

ID: 7429-90-5

#: 100.0000 - 100.0000

GS: LT-P1

RC: Both

NANO: No

ROLE: Aluminum extrusions

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Potential residuals for the aluminum extrusions include pre-wash and pre-treat chemicals that ensure paint adhesion. The maximum amount of residual material was considered and is less than 1000ppm. Residuals present at 100ppm would be encapsulated in cured finish. Aluminum extrusions include both pre-and post-consumer recycled content as well as virgin material. Amounts of each vary by lot.

**FLUROPON
PURE -
EXTRUSION**

#: 1.9435 -
1.9435

HPD URL: https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_58_Fluoropon_Pure_Extrusion_1476885924.pdf

PRODUCT THRESHOLD: 1000 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Material Notes: Fluoropon Pure Extrusion Coating System. HPD represents the coating system as applied after curing/baking including 732X1023FP primer and Fluoropon Pure topcoat. This HPD represents all possible topcoat colors. Pigments may or may not be present in any one given color. The total coating system weight as applied on the metal substrate is .017lbs/ft².

OTHER MATERIAL NOTES: The pigments included in this HPD include thousands of possible colors, and include all standard and most custom color.

POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER)

ID: 24937-79-9

#: 26.9400 - 32.9300 GS: LT-UNK RC: None NANO: No ROLE: Polymer

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

SUBSTANCE NOTES: This substance is present in all finish color options.

TITANIUM DIOXIDE

ID: 13463-67-7

#: 12.0400 - 18.9400 GS: LT-1 RC: None NANO: No ROLE: Pigment

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: SUBSTANCE NOTES: From IARC Monograph 93 (<http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf>), p. 274: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints." The Office of Environmental Health Hazard Assessment (OEHHA) within the California Environmental Protection Agency is adding titanium dioxide (airborne, unbound particles of respirable size) to the list of chemicals known to the State of California to cause cancer for purposes of the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). However, the listing does not cover titanium dioxide when it remains bound within a product matrix. In this product's final cured film exposure is extremely unlikely since it is embedded in a solid, continuous polymer matrix and thus no longer exists as isolated particles.

ACRYLIC RESIN

ID: 1946811-39-7

#: 9.7700 - 11.9500 GS: NoGS RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE

ID: 6846-50-0

#: 6.7700 - 8.2700 GS: LT-P1 RC: None NANO: No ROLE: Plasticizer

HAZARDS: AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

BARIUM SULFATE

ID: 7727-43-7

#: 6.4000 - 7.8200 GS: BM-2 RC: None NANO: No ROLE: Extender

HAZARDS: AGENCY(IES) WITH WARNINGS:

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

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

ACRYLIC-MELAMINE RESIN

ID: 1947341-00-5

#: 1.0600 - 1.3000 GS: NoGS RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

TRIPHOSPHORIC ACID, ALUMINUM SALT

ID: 13939-25-8

#: **1.0600 - 1.3000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

STRONTIUM CARBONATE

ID: 1633-05-2

#: **0.8500 - 1.0400** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

SILICA, AMORPHOUS

ID: 7631-86-9

#: **0.8000 - 1.0500** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER Japan - GHS Carcinogenicity - Category 1A

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

ALUMINIUM HYDROXIDE OXIDE

ID: 24623-77-6

#: **0.7200 - 0.9100** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

WOLLASTONITE

ID: 13983-17-0

#: **0.6400 - 0.7800** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

ZINC 5-NITROISOPHTHALATE

ID: 60580-61-2

#: **0.6400 - 0.7800** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

ALUMINA TRIHYDRATE

ID: 21645-51-2

#: **0.6200 - 1.0500** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

CELLULOSE ACETATE BUTANOATE, AVERAGE MOLECULAR WEIGHT 15000 - 65000 G/MOL

ID: 9004-36-8

#: **0.2900 - 0.3500** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **resin**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

FUMED SILICA, CRYSTALLINE-FREE

ID: 112945-52-5

#: **0.1800 - 0.2200** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Extender**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

IRON HYDROXIDE OXIDE YELLOW

ID: 20344-49-4

#: **0.1200 - 16.4500** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is present in all finish color options but exact amount varies within the range provided.

CHROMIUM IRON OXIDE

ID: **12737-27-8**

#: **0.0000 - 24.2800** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

CHROMIUM (III) OXIDE

ID: **1308-38-9**

#: **0.0000 - 20.9600** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

FERRIC OXIDE

ID: **1309-37-1**

#: **0.0000 - 21.8000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

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

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

CARBON BLACK

ID: **1333-86-4**

#: **0.0000 - 7.0400** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

MAK

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

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

SUBSTANCE NOTES: Optional pigment. Only present in certain color options. From IARC Monograph 93 (<http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf>), p.63: "Operators in user industries who handle fluffy or pelleted carbon black during rubber, paint and in production are expected to have significantly lower exposures to carbon black than workers in carbon black production. Other workers in user industries who handle it occasionally have little opportunity for exposure. End-users of these products (rubber, ink or paint) are unlikely to be exposed to airborne carbon black particles, which are bound within the product matrix"

C.I. PIGMENT BLUE 28

ID: 1345-16-0

#: 0.0000 - 19.0000 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE

ID: 1047-16-1

#: 0.0000 - 7.4532 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional material based on color.

PHthalocyanine GREEN

ID: 1328-53-6

#: 0.0000 - 4.7000 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

5,12-DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE

ID: 1047-16-1

#: 0.0000 - 7.8200 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This is an optional pigment only present in certain color options.

BISMUTH VANADIUM TETRAOXIDE

ID: 14059-33-7

#: 0.0000 - 16.5700 GS: LT-P1 RC: None NANO: No ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

C.I. PIGMENT BLUE 15

ID: 147-14-8

%: 0.0000 - 3.3300	GS: BM-3	RC: None	NANO: No	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Optional pigment. Only present in certain color options.				

PYRROLO[3,4-C]PYRROLE-1,4-DIONE,3,6-BIS(4-CHLOROPHENYL)-2,5-DIHYDRO-

ID: 84632-65-5

%: 0.0000 - 6.9500	GS: LT-UNK	RC: None	NANO: No	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES: Optional pigment. Only present in certain color options.				

C.I. PIGMENT GREEN 50

ID: 68186-85-6

%: 0.0000 - 20.0800	GS: LT-1	RC: None	NANO: No	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted		
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man		
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization		
GENE MUTATION	MAK	Germ Cell Mutagen 3a		

SUBSTANCE NOTES: SUBSTANCE NOTES: Optional pigment. Only present in certain color options. CI Pigment Green 50 (aka Cobalt titanite green spinel) is produced by high temperature calcination of a mixture of oxides of Co and Ti in varying amounts to form a crystalline matrix of inverse spinel. Due to its unique crystalline structure the properties of this pigment do not necessarily reflect the properties of the component metals or

oxides. Further, the pigment is of negligible water solubility and bioavailability (under no foreseeable conditions are metal ions able to be released from the crystalline structure). And finally, in the final cured film exposure is extremely unlikely since it is embedded in a solid, continuous polymer matrix and thus no longer exists as isolated particles.

RUTILE, ANTIMONY CHROMIUM BUFF

ID: 68186-90-3

#: 0.0000 - 19.9200 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

C.I. PIGMENT BLACK 28

ID: 68186-91-4

#: 0.0000 - 19.9200 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

C.I. PIGMENT BLUE 36

ID: 68187-11-1

#: 0.0000 - 17.3900 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

HEMATITE, CHROMIUM GREEN BLACK

ID: 68909-79-5

#: 0.0000 - 23.6800 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

MOLYBDATE (MOO42#-), CALCIUM (1:1), (T-4)-

ID: 7789-82-4

#: 0.0000 - 0.3400 GS: LT-UNK RC: None NANO: No ROLE: Pigment

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain colors.

NICKEL RUTILE YELLOW

ID: 8007-18-9

#: **0.0000 - 22.1100** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Optional pigment. Only present in certain color options.

2-(2-BUTOXYETHOXY)ETHANOL

ID: 112-34-5

#: **0.0000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION

EU - R-phrases

R36 - Irritating to eyes

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: This solvent will likely flash off during the baking/curing process, however, some may remain.

18-8 TYPE 304 STAINLESS FASTENERS

#: **0.4382 - 0.4382**

HPD URL: No HPD Available

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Stainless steel screws are a commodity product and residulas or impurities may not be consistent.

OTHER MATERIAL NOTES: These are fasteners that are used to assemble the product.

304 STAINLESS STEEL (304 STAINLESS STEEL)

ID: 12597-68-1

#: **100.0000 - 100.0000** GS: **NoGS** RC: **Both** NANO: **No** ROLE: **Fastener material**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: There is a varying amount of recycled content in this material.

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

N/A

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2017-10-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: All

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CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

MULTI-ATTRIBUTE

ILFI Declare - LBC Compliant

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2016-12-

EXPIRY DATE: 2017-

CERTIFIER OR LAB: International

APPLICABLE FACILITIES: All

01

12-01

Living Future Institute

CERTIFICATE URL: <https://living-future.org/declare-products/aluminum-extruded-louver-with-fluoropure-finish/>

CERTIFICATION AND COMPLIANCE NOTES: Third party certification is in process.

+ 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.

FASTENERS TO ATTACH PRODUCT TO BUILDING STRUCTURE

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

ILI does not provide the metal fasteners that attach our products to the building. Fasteners may be from a variety of material and suppliers and depend on the application and substrate.

📄 Section 5: General Notes

Notes related to consideration of residuals and impurities are included in material and substance notes. Hazard screening was completed through the HPD builder. Variations on the custom product and scope of the HPD are explained in the product title/description section.

👁️ Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Industrial Louvers Inc.**
ADDRESS: **511 South 7th Street**
Delano Minnesota 55328, United States

CONTACT NAME: **Lisa Britton**
TITLE: **Director, Sales & Marketing/Sustainability**
Champion

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

GreenScreen (GS)

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