Extruded Aluminum Louver with Fluropon Pure Finish by Industrial Louvers Inc.

Health Product Declaration v2.1

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] FLUROPON 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 Fluropon Pure. Note that the producut 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:
VERIFICATION #:

PUBLISHED DATE: 2017-10-26
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_Fluropon_Pure_Extrusion_1476885924.pdf

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Material Notes: Fluropon Pure Extrusion Coating System. HPD represents the coating system as applied after curing/baking including 732X1023FP primer and Fluropon Pure topcoat. This HPD represents all possible topcoat colors. Pigmens may or may not be present in any one given color. The total coatin gsystem 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
APPLICABLE FACILITIES: All
CERTIFICATE URL:

ISSUE DATE:2017-10-13

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFICATION AND COMPLIANCE NOTES:

MULTI-ATTRIBUTE **ILFI Declare - LBC Compliant**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: All
CERTIFICATE URL: https://living-future.org/declare-products/aluminum-extruded-louver-with-fluropon-pure-finish/

ISSUE DATE:2016-12-01

EXPIRY DATE: 2017-12-01

CERTIFIER OR LAB: International Living Future Institute

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 buliding. Fasteners may be from a variety of material and suppliers and depnd 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**

WEBSITE: **www.industriallouvers.com**
PHONE: **7639727011**
EMAIL: **lisab@industriallouvers.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.