

CLASSIFICATION: 08 80 50

PRODUCT DESCRIPTION: Monolithic glass by Laurier Glass Ltd. is a single glass manufactured from the float process. It may be clear or tinted in the mass and available in various thickness from 3 mm to 19 mm. Various coatings may be applied on its surface to confer energetic or aesthetic properties. It may also be thermally treated. This HPD covers all possible variations of Laurier Glass Ltd.'s monolithic glass, except mirrors.

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 4 of 5 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

GLASS [SILICA, AMORPHOUS LT-P1 | CAN SODIUM OXIDE LT-UNK
CALCIUM OXIDE LT-P1 | MAGNESIUM OXIDE LT-UNK | CAN SODIUM
SULFATE LT-UNK FERRIC OXIDE BM-2 | CAN CARBON LT-UNK
ALUMINUM OXIDE LT-P1 | RES] COATING #1 [SILOXANES AND
SILICONES, DI-ME, HYDROXY-TERMINATED BM-2 SILICA, AMORPHOUS
LT-P1 | CAN FERRIC OXIDE BM-2 | CAN NICKEL RUTILE YELLOW LT-1 |
CAN | RES C.I. PIGMENT GREEN 50 LT-1 | RES | CAN | GEN C.I. PIGMENT
YELLOW 227; NIOBIUM SULFUR TIN ZINC OXIDE NoGS C.I. PIGMENT
BLUE 28 LT-1 | RES | CAN | GEN FERRIC OXIDE YELLOW LT-UNK
CARBON BLACK LT-1 | CAN C.I. PIGMENT GREEN 36 LT-UNK 5,12-
DIHYDROQUINO(2,3-B)ACRIDINE-7,14-DIONE LT-UNK C.I. PIGMENT BLUE
15 BM-3 2,2'-((3,3'-DICHLORO(1,1'-BIPHENYL)-4,4'-DIYL)BIS(AZO))BIS(N-
(4-C-HORO-2,5-DIMETHOXYPHENYL)-3-OXOBUTYRAMIDE) LT-P1 | MUL
TITANIUM DIOXIDE LT-1 | CAN | END C.I. PIGMENT YELLOW 216; RUTILE,
TIN ZINC NoGS] COATING #2 [WATER BM-4 2-PROPENOIC ACID,
METHYL ESTER, HOMOPOLYMER LT-UNK TITANIUM DIOXIDE LT-1 | CAN
| END ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) BM-2 | SKI | EYE |
END POLYETHYLENE LT-UNK FUMED SILICA, CRYSTALLINE-FREE LT-
UNK 2-(2-BUTOXYETHOXY)ETHANOL LT-P1 | EYE | END SILICA,
AMORPHOUS LT-P1 | CAN TRIETHYLAMINE LT-UNK | SKI | PHY 1,2-
BENZISOTHIAZOLIN-3-ONE (BIT) LT-P1 | AQU | SKI | EYE | MUL
MONOETHANOLAMINE LT-P1 | RES | SKI | END DIETHYLENE GLYCOL
MONOETHYL ETHER LT-UNK] COATING #3 [UNDISCLOSED LT-P1 | MUL
UNDISCLOSED LT-1 | CAN | END UNDISCLOSED LT-1 | CAN | RES
UNDISCLOSED LT-1 | CAN | PBT | MUL UNDISCLOSED LT-UNK
UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | RES UNDISCLOSED LT-
UNK UNDISCLOSED BM-2 | SKI | EYE | END UNDISCLOSED LT-P1 | EYE |
END UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | MUL] COATING #4 [
FRITS, CHEMICALS LT-P1 | MUL CYCLOHEXANONE LT-P1 | END | CAN
DIPROPYLENE GLYCOL MONOMETHYL ETHER LT-UNK 2-(2-
BUTOXYETHOXY)ETHANOL LT-P1 | EYE | END C.I. PIGMENT BLUE 28 LT-

Number of Greenscreen BM-4/BM3 contents ... 2

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product. Monolithic glass by Laurier Glass Ltd. contains special conditions materials, reaction products (coatings) and float glass. Guidelines for reporting Special Conditions materials are still under development by the HPDC. Laurier will update the HPD accordingly once these guidelines get published. Known residuals and impurities; have been disclosed at 1,000 ppm. More details about how residuals and impurities were considered available in the appropriate section. Variations in the composition of Monolithic Glass [type of glass and type of coating (if present)] introduce ranges in the content inventory section.

1 | RES | CAN | GEN C.I. PIGMENT BLACK 28 LT-UNK RUTILE, ANTIMONY
CHROMIUM BUFF LT-UNK C.I. PIGMENT GREEN 50 LT-1 | RES | CAN |
GEN TITANIUM DIOXIDE LT-1 | CAN | END NICKEL RUTILE YELLOW LT-1 |
CAN | RES ISOBUTYL ALCOHOL BM-2 | SKI | EYE]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.
VOC emissions: CDPH Standard Method – Not tested

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-08-10

PUBLISHED DATE: 2018-08-13

EXPIRY DATE: 2021-08-10



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.hpdc-collaborative.org/hpd-2-1-standard

GLASS

%: 95.2000 - 100.0000

HPD URL: N/A

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Supplier #1: Supplier #1 confirms that there are no residuals or impurities remaining on the acid-etched glass surface following the etching process. Supplier #2: Traces of Carbon, Silicon, Aluminum, Oxygen, Nitrogen, Nickel, Chromium, Silver, Zinc, Zirconium and Titanium are used to form thin layers on Soft Coat glass products; however, those materials are all less than 0.1% by weight and are exempt from hazardous ingredient reporting requirements according to the OSHA Hazard Communication standard. Although present in trace amounts, the primary hazards from the substances present would be the same as for un-coated glass products. Supplier #3: The supplier #3 raw float/flat glass may contain the contaminants chromium, cadmium, and/or lead (derived from very minuscule amounts of mined raw materials such as silica or limestone) at significantly less than the threshold limits for RoHs. These metals are the only RoHS hazardous substances that have the potential to be in the glass -- typically undetected or in the parts per billion range. Supplier #4: No impurities or residuals identified by this supplier. Supplier #5: The supplier #5 declares that Pb, Cr, As, Sb, V and Cd are never present at levels greater than 20ppm. Co, Se and Ni may be added to impart colour to some tinted glasses. Co is never present at a concentration greater than 200ppm and Se at more than 50ppm. Ni is typically not present at levels greater than 200ppm, but may be at 1000ppm in some specific dark grey products.

OTHER MATERIAL NOTES: The main material used is soda-lime glass. The composition disclosed below corresponds to an average and generic composition for soda-lime glass.

SILICA, AMORPHOUS

ID: 7631-86-9

%: 69.0000 - 74.0000

GS: LT-P1

RC: None

NANO: No

ROLE: Network former

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

SUBSTANCE NOTES: See other material notes

SODIUM OXIDE

ID: 1313-59-3

%: 12.0000 - 16.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Fluxing agent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

CALCIUM OXIDE

ID: 1305-78-8

%: 5.0000 - 12.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Network modifier
----------------------------	------------------	-----------------	-----------------	-------------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

MAGNESIUM OXIDE

ID: 1309-48-4

%: 0.0000 - 6.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Network modifier
---------------------------	-------------------	-----------------	-----------------	-------------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

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

SUBSTANCE NOTES: See other material notes

SODIUM SULFATE

ID: 7757-82-6

%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Fining agent
---------------------------	-------------------	-----------------	-----------------	---------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

FERRIC OXIDE

ID: 1309-37-1

%: 0.0000 - 1.0000	GS: BM-2	RC: None	NANO: No	ROLE: Coloring agent
---------------------------	-----------------	-----------------	-----------------	-----------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

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

SUBSTANCE NOTES: See other material notes

CARBON

ID: 7440-44-0

%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Reducing agent
---------------------------	-------------------	-----------------	-----------------	-----------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

ALUMINUM OXIDE

ID: 1344-28-1

%: 0.0000 - 3.0000 GS: LT-P1 RC: None NANO: No ROLE: Durability/viscosity/ workability enhancer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

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

SUBSTANCE NOTES: See other material notes

COATING #1

%: 0.0000 - 4.5200

HPD URL: N/A

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS, based on direct testing (FTIR and GC/MS).

OTHER MATERIAL NOTES: Alternative coating to coating #2, #3, and #4. Average coating composition. Percent by weight of pigments given represents the absolute maximum possible in the product if only a single pigment is used. However, multiple pigments are routinely blended to create the numerous colors offered; therefore, most pigments listed in this HPD will fall well below the Content Inventory Threshold indicated. Please seek manufacturer assistance if more information is required.

SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED

ID: 70131-67-8

%: 77.8000 - 85.7100 GS: BM-2 RC: None NANO: No ROLE: Opacification coating for glass

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

SILICA, AMORPHOUS

ID: 7631-86-9

%: 11.1100 - 21.4300 GS: LT-P1 RC: None NANO: No ROLE: Reinforcing agent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

SUBSTANCE NOTES: See other material notes

FERRIC OXIDE

ID: 1309-37-1

%: **0.0000 - 14.2900** 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: See other material notes

NICKEL RUTILE YELLOW

ID: 8007-18-9

%: **0.0000 - 14.2900** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: See other material notes

C.I. PIGMENT GREEN 50

ID: 68186-85-6

%: **0.0000 - 14.2900** 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
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: See other material notes

C.I. PIGMENT YELLOW 227; NIOBIUM SULFUR TIN ZINC OXIDE

ID: 1374645-21-2

%: 0.0000 - 14.2900	GS: NoGS	RC: None	NANO: No	ROLE: Pigment
----------------------------	-----------------	-----------------	-----------------	----------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

C.I. PIGMENT BLUE 28

ID: 1345-16-0

%: 0.0000 - 14.2900	GS: LT-1	RC: None	NANO: No	ROLE: Pigment
----------------------------	-----------------	-----------------	-----------------	----------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

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: See other material notes

FERRIC OXIDE YELLOW

ID: 51274-00-1

%: 0.0000 - 14.2900	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: See other material notes

CARBON BLACK

ID: 1333-86-4

%: 0.0000 - 7.1400	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

CANCER

MAK

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

SUBSTANCE NOTES: See other material notes

C.I. PIGMENT GREEN 36

ID: 14302-13-7

#: 0.0000 - 7.1400 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: See other material notes

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

ID: 1047-16-1

#: 0.0000 - 7.1400 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: See other material notes

C.I. PIGMENT BLUE 15

ID: 147-14-8

#: 0.0000 - 7.1400 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: See other material notes

2,2'-((3,3'-DICHLORO(1,1'-BIPHENYL)-4,4'-DIYL)BIS(AZO))BIS(N-(4-C-HORO-2,5-DIMETHOXYPHENYL)-3-OXOBUTYRAMIDE)

ID: 5567-15-7

#: 0.0000 - 7.1400 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: See other material notes

TITANIUM DIOXIDE

ID: 13463-67-7

#: 0.0000 - 14.2900 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

SUBSTANCE NOTES: See other material notes

C.I. PIGMENT YELLOW 216; RUTILE, TIN ZINC

ID: 85536-73-8

#: 0.0000 - 14.2900 GS: NoGS RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

COATING #2

#: 0.0000 - 4.7800

HPD URL: N/A

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The manufacturer indicated that there were no residuals or impurities.

OTHER MATERIAL NOTES: Alternative to coating #1, #3, and #4. Average composition of acrylic-based coating.

WATER

ID: 7732-18-5

#: 49.5700 - 57.7900 GS: BM-4 RC: None NANO: No ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

2-PROPENOIC ACID, METHYL ESTER, HOMOPOLYMER

ID: 9003-21-8

#: 23.1200 - 32.3400 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: Approximate for acrylic resin. See other material notes

TITANIUM DIOXIDE

ID: 13463-67-7

%: **17.1900** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Mineral charge**

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

SUBSTANCE NOTES: See other material notes

ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE)

ID: 111-76-2

%: **3.9000 - 5.5800** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: See other material notes

POLYETHYLENE

ID: 9002-88-4

%: **2.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Wax**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

FUMED SILICA, CRYSTALLINE-FREE

ID: 112945-52-5

%: **1.1500** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Mineral charge**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

2-(2-BUTOXYETHOXY)ETHANOL

ID: 112-34-5

#: 0.9700 - 1.6000 GS: LT-P1 RC: None NANO: No ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: See other material notes

SILICA, AMORPHOUS

ID: 7631-86-9

#: 0.5000 GS: LT-P1 RC: None NANO: No ROLE: Mineral charge

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

SUBSTANCE NOTES: See other material notes

TRIETHYLAMINE

ID: 121-44-8

#: 0.1800 GS: LT-UNK RC: None NANO: No ROLE: PH modifier & stabilizer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H314 - Causes severe skin burns and eye damage

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: See other material notes

1,2-BENZISOTHIAZOLIN-3-ONE (BIT)

ID: 2634-33-5

#: 0.1000 GS: LT-P1 RC: None NANO: No ROLE: Preservative

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SKIN SENSITIZE

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

EYE IRRITATION

EU - GHS (H-Statements)

H318 - Causes serious eye damage

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: See other material notes

MONOETHANOLAMINE

ID: 141-43-5

#: 0.0000 - 0.1000 GS: LT-P1 RC: None NANO: No ROLE: PH modifier & stabilizer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: See other material notes

DIETHYLENE GLYCOL MONOETHYL ETHER

ID: 111-90-0

#: 0.0000 - 0.9900 GS: LT-UNK RC: None NANO: No ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists
------------	---

SUBSTANCE NOTES: See other material notes

COATING #3

#: 0.0000 - 2.8800

HPD URL: N/A

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: The manufacturer indicated that there were no residual substances or impurities.

OTHER MATERIAL NOTES: Alternative coating to coating #1, #2, and #4. Decorative coating. Composition protected by a NDA. Ranges provided to protect the exact composition.

UNDISCLOSED

#: 60.0000 - 77.0000 GS: LT-P1 RC: None NANO: No ROLE: Primary component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
----------	---	----------------------------

SUBSTANCE NOTES: See other material notes

UNDISCLOSED

%: 0.0000 - 8.0000	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		

SUBSTANCE NOTES: See other material notes

UNDISCLOSED

%: 0.0000 - 5.0000	GS: LT-1	RC: None	NANO: No	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only		
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen		

SUBSTANCE NOTES: See other material notes

UNDISCLOSED

%: 0.0000 - 10.0000	GS: LT-1	RC: None	NANO: No	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen		
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1		

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: See other material notes

UNDISCLOSED

#: **0.0000 - 8.0000** 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: See other material notes

UNDISCLOSED

#: **0.0000 - 20.0000** 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: See other material notes

UNDISCLOSED

#: **0.0000 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: See other material notes

UNDISCLOSED

#: **0.0000 - 15.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: See other material notes

UNDISCLOSED

%: **0.0000 - 3.0000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: **See other material notes**

UNDISCLOSED

%: **0.0000 - 17.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: **See other material notes**

UNDISCLOSED

%: **0.0000 - 8.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: **See other material notes**

UNDISCLOSED

%: **0.0000 - 3.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: **See other material notes**

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The manufacturer indicated that there were no residual substances or impurities.

OTHER MATERIAL NOTES: Alternative coating to coating #1, #2 and #3. Decorative coating

FRITS, CHEMICALS

ID: 65997-18-4

%: **30.0000 - 50.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Inorganic binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE**German FEA - Substances Hazardous to Waters****Class 2 - Hazard to Waters**

SUBSTANCE NOTES: See other material notes

CYCLOHEXANONE

ID: 108-94-1

%: **10.0000 - 20.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE**TEDX - Potential Endocrine Disruptors****Potential Endocrine Disruptor****CANCER****MAK****Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification**

SUBSTANCE NOTES: See other material notes

DIPROPYLENE GLYCOL MONOMETHYL ETHER

ID: 34590-94-8

%: **10.0000 - 30.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found**No warnings found on HPD Priority lists**

SUBSTANCE NOTES: See other material notes

2-(2-BUTOXYETHOXY)ETHANOL

ID: 112-34-5

%: **5.0000 - 10.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Solvent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION**EU - GHS (H-Statements)****H319 - Causes serious eye irritation****ENDOCRINE****TEDX - Potential Endocrine Disruptors****Potential Endocrine Disruptor**

SUBSTANCE NOTES: See other material notes

C.I. PIGMENT BLUE 28

ID: 1345-16-0

#: **0.0000 - 30.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Pigment**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

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: See other material notes

C.I. PIGMENT BLACK 28

ID: 68186-91-4

#: **0.0000 - 30.0000** 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: See other material notes

RUTILE, ANTIMONY CHROMIUM BUFF

ID: 68186-90-3

#: **0.0000 - 30.0000** 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: See other material notes

C.I. PIGMENT GREEN 50

ID: 68186-85-6

#: **0.0000 - 30.0000** 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

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms

only

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
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: See other material notes

TITANIUM DIOXIDE

ID: 13463-67-7

#: 0.0000 - 30.0000 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

SUBSTANCE NOTES: See other material notes

NICKEL RUTILE YELLOW

ID: 8007-18-9

#: 0.0000 - 30.0000 GS: LT-1 RC: None NANO: No ROLE: Pigment

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: See other material notes

ISOBUTYL ALCOHOL

ID: 78-83-1

#: 0.0000 - 5.0000 GS: BM-2 RC: None NANO: No ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H318 - Causes serious eye damage

SUBSTANCE NOTES: **See other material 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: **None**

APPLICABLE FACILITIES: **All**

08-10

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Not tested**

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: **LAURIER GLASS LTD**
ADDRESS: **153, Laurier blvd, Laurier-Station
Laurier-Station Quebec G0S 1N0, Canada**
WEBSITE: **http://laurier.net/**

CONTACT NAME: **Guillaume Jacob**
TITLE: **Plant Manager**
PHONE: **4187282023**
EMAIL: **gjacob@laurier.net**

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.