

CLASSIFICATION: 08 80 50

PRODUCT DESCRIPTION: This HPD covers Prel-Unit Insulating Glass by Prelco. It represents the typical composition of an insulating glass with the following dimensions: 60 in. x 90 in. All options regarding the types of glasses used (monolithic or laminated), types of spacers (warm edge spacers), types of primary and secondary sealants have been included in this HPD. Prel-Unit insulating glass makes a significant impact on a building's energy consumption. This glass helps keep occupants comfortable, counteracting heat increase in the summer and limiting heat loss in the winter. Prelco Prel-Unit Insulating Glass is compliant to CAN/CGBS 12.8 and ASTM E2190.

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 5 of 7 Materials

Explanation(s) provided for Residuals/Impurities?
 Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No
 % weight and role provided for all substances.

Screened Yes Ex/SC Yes No
 All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No
 One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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 [SOLID / PLATE GLASS LT-UNK] SECONDARY SEALANT [STEARIC ACID LT-P1 | END SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED BM-2 CALCIUM CARBONATE BM-3 LIMESTONE; CALCIUM CARBONATE LT-UNK POLYDIMETHYL SILOXANE LT-P1 | PBT (3-AMINOPROPYL)TRIETHOXYSILANE LT-UNK | SKI DI-N-BUTYL TIN OXIDE LT-1 | PBT | MUL | CAN | DEL | REP CYCLOMETHICONE LT-UNK POLYDIMETHYLSILOXANES LT-P1 | PBT TETRAPROPYL ORTHOSILICATE NoGS] DESICCANT [ZEOLITE LT-UNK QUARTZ LT-1 | CAN] LAMINATED GLASS [SOLID / PLATE GLASS LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED BM-2 | RES UNDISCLOSED NoGS UNDISCLOSED LT-P1 UNDISCLOSED LT-P1 UNDISCLOSED LT-1 | PBT | MUL UNDISCLOSED BM-4] SPACER #1 [POLYPROPYLENE LT-UNK STAINLESS STEEL NoGS STEEL NoGS] SPACER #2 [STAINLESS STEEL NoGS TRIGLYCIDYL ISOCYANURATE (TGIC) LT-1 | RES | GEN | MAM | SKI | EYE | MUL CARBON BLACK LT-1 | CAN PARAFFIN LT-UNK] PRIMARY SEALANT [1-PROPENE, 2-METHYL-, HOMOPOLYMER LT-UNK CARBON BLACK LT-1 | CAN]

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 HPD has been prepared with the Nested Inventory Method with a product threshold of 1,000 ppm. Ranges are introduced because of alternate materials (type of glass, spacers, etc.) and also substance-wise when multiple suppliers exist. All residuals and impurities present above 1,000 ppm in Prelco Prel-Unit Insulating Glass have been disclosed to the extent possible. Ceramic-based coatings were not included in the content inventory because of their low concentration (below 1,000 ppm) in Prelco Prel-Unit Insulating Glass. Special Conditions materials are present in the product: ceramics, float glass, reaction products, metal alloy. Some guidelines for reporting Special Conditions materials are still under development by HPDC, therefore Prelco will update the HPD accordingly once these guidelines get published.

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: CDPH Standard Method V1.2 (Section 01350/CHPS) - N/A

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

Yes

No

PREPARER: **Vertima**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2018-12-14**

PUBLISHED DATE: **2020-01-24**

EXPIRY DATE: **2021-12-14**



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

GLASS

#: 45.00 - 100.00

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: According to suppliers, float glass does not contain any substances of very high concern (SVHC) as per REACH. No residuals or impurities are present in float glass above 1000 ppm. Finally, according to the data collected from supplier of coated glasses, residuals and impurities are not tested in coatings.

OTHER MATERIAL NOTES: It includes a wide range of float glass (ultraclear, tinted, low-E coating, reflective coating). Those types of glasses are essentially soda-lime glasses. Low-E and reflective coatings are not inventoried since both coatings are way below the reportable threshold.

SOLID / PLATE GLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 100.00

GS: LT-UNK

RC: UNK

NANO: No

ROLE: Main material

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Soda-lime glass chemistry

SECONDARY SEALANT

#: 1.10

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Data on residuals and impurities was different from one supplier to the other. One of the secondary sealant had residual chemicals as presented in the inventory.

OTHER MATERIAL NOTES: Silicone-based sealant. Multiple suppliers provide this type of sealant to Prelco and therefore, the composition is an average of both supplier materials. One of the composition was given as a mix of 2 parts, and the final composition is only based on ingredients before reaction.

STEARIC ACID

ID: 57-11-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.90 - 5.00

GS: LT-P1

RC: None

NANO: No

ROLE: Filler treatment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: See Other Material Notes.

SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED

ID: 70131-67-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.00 - 60.00 GS: BM-2 RC: None NANO: No ROLE: Base polymer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

CALCIUM CARBONATE

ID: 471-34-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.00 - 50.00 GS: BM-3 RC: None NANO: No ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.00 - 55.60 GS: LT-UNK RC: None NANO: No ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

POLYDIMETHYL SILOXANE

ID: 9016-00-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.00 - 60.00 GS: LT-P1 RC: None NANO: No ROLE: Base polymer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: See Other Material Notes.

(3-AMINOPROPYL)TRIETHOXYSILANE

ID: 919-30-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-12-14		
%: 0.00 - 4.40	GS: LT-UNK	RC: None	NANO: No	ROLE: Reactant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: See Other Material Notes.

DI-N-BUTYLTIN OXIDE

ID: 818-08-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-12-14		
%: 0.00 - 0.10	GS: LT-1	RC: None	NANO: No	ROLE: Reactant

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
DEVELOPMENTAL	MAK	Pregnancy Risk Group B
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: See Other Material Notes.

CYCLOMETHICONE

ID: 69430-24-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2018-12-14		
%: Impurity/Residual	GS: LT-UNK	RC: None	NANO: No	ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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SUBSTANCE NOTES: <1%, from siloxane polymer

POLYDIMETHYLSILOXANES

ID: 63148-62-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **Impurity/Residual** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
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SUBSTANCE NOTES: <1%, from siloxane polymer

TETRAPROPYL ORTHOSILICATE

ID: 682-01-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 4.40** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Reactant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found		No warnings found on HPD Priority Hazard Lists
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SUBSTANCE NOTES: See Other Material Notes.

DESICCANT

#: **0.40 - 0.50**

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: **Data regarding residuals and impurities was not provided by the supplier.**

OTHER MATERIAL NOTES: **The quantity of desiccant varies with the type of spacer used. Therefore, a range is introduced.**

ZEOLITE

ID: 1318-02-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **70.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Main substance**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **See Other Material Notes.**

QUARTZ

ID: 14808-60-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **30.00** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Ingredient**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: **See Other Material Notes.**

LAMINATED GLASS

#: **0.00 - 53.05**

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **For residuals and impurities information on the glass material, please refer to the material "Glass" inventoried in the HPD. For residuals and impurities information on the interlayers, an impurity originating from the process has been disclosed by the supplier. It is not hazardous and the GreenScreen Score for this substance is BM-4.**

OTHER MATERIAL NOTES: Laminated glass can be part of Prelco Prel-UniT Insulating Glass. In this case, interlayers can vary and the composition reported below is an average composition of all interlayer options. The chemical composition of all interlayers is protected by a NDA signed between the third party preparer and the supplier, and therefore the chemical names and CAS numbers of all substances are undisclosed.

SOLID / PLATE GLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 48.00**

GS: **LT-UNK**

RC: **UNK**

NANO: **No**

ROLE: **Main material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Soda-lime glass chemistry**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 5.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Polymer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 3.75**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Polymer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 1.50**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Plasticizer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 0.15**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Pigment**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagens (Rs) - sensitizer-induced

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 0.10**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Plasticizer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 0.03**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **UV Absorber**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 0.02**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Stabilizer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.**

UNDISCLOSED

%: **0.00 - 0.01**GS: **LT-1**RC: **None**NANO: **No**ROLE: **UV Absorber**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EU - SVHC Authorisation List	PBT - Candidate list
PBT	EU - SVHC Authorisation List	PBT - Prioritized for listing
PBT	EU - SVHC Authorisation List	vPvB - Candidate list
PBT	EU - SVHC Authorisation List	vPvB - Prioritized for listing
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Substance of Possible Concern
PBT	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: **Interlayer ingredient. See Other Material Notes.****UNDISCLOSED**%: **Impurity/Residual**GS: **BM-4**RC: **None**NANO: **No**ROLE: **Impurity/Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Interlayer residual chemical from process. See Other Material Notes.****SPACER #1**%: **0.00 - 0.30**PRODUCT THRESHOLD: **1000 ppm**RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **Residuals and impurities data was not provided by the supplier, since no such testing is performed. However, the supplier has taken the necessary organisational measures so that their products conform to the REACH requirements.**

OTHER MATERIAL NOTES: **Spacer #1 is a spacer with thermal characteristics. It is one of the spacer options (alternate material to Spacer #2).**

POLYPROPYLENE

ID: 9003-07-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **35.00 - 60.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Thermal material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

STAINLESS STEEL

ID: 12597-68-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **25.00 - 65.00**

GS: **NoGS**

RC: **UNK**

NANO: **No**

ROLE: **Main material**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

STEEL

ID: 12597-69-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 20.00**

GS: **NoGS**

RC: **UNK**

NANO: **No**

ROLE: **Rigidity**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

SPACER #2

#: **0.00 - 0.40**

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **No**

RESIDUALS AND IMPURITIES NOTES: **Data regarding residuals and impurities was not provided by the supplier.**

OTHER MATERIAL NOTES: **Spacer #2 is a stainless steel spacer. It is one of the spacer options (alternate material to Spacer #1). Stainless steel is powder coated.**

STAINLESS STEEL

ID: 12597-68-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: 97.40 - 97.80

GS: NoGS

RC: UNK

NANO: No

ROLE: Main material

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

TRIGLYCIDYL ISOCYANURATE (TGIC)

ID: 2451-62-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.10 - 0.40

GS: LT-1

RC: None

NANO: No

ROLE: Powder coat ingredient

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Candidate list
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	Korea - GHS	Germ cell mutagenicity - Category 1 [H340 - May cause genetic defects]
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B

SUBSTANCE NOTES: See Other Material Notes.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2018-12-14

#: 0.00 - 0.10

GS: LT-1

RC: None

NANO: No

ROLE: Powder coat ingredient

HAZARD TYPE	AGENCY AND LIST TITLES	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.

PARAFFIN

ID: 8002-74-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2018-12-14**

#: **0.00 - 0.10**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Powder coat ingredient**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See Other Material Notes.

PRIMARY SEALANT

#: **0.00 - 0.10**

PRODUCT THRESHOLD: **1000 ppm**

RESIDUALS AND IMPURITIES CONSIDERED: **Yes**

RESIDUALS AND IMPURITIES NOTES: **According to supplier, no residuals or impurities are present in the sealant.**

OTHER MATERIAL NOTES: **Black colored PIB sealant.**

1-PROPENE, 2-METHYL-, HOMOPOLYMER

ID: 9003-27-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **40.00 - 80.00**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Main polymer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found**No warnings found on HPD Priority Hazard Lists**SUBSTANCE NOTES: **See Other Material Notes.****CARBON BLACK**

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2018-12-14**%: **10.00 - 30.00**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Pigment**

HAZARD TYPE

AGENCY AND LIST TITLES

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.**

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 V1.2 (Section 01350/CHPS) - N/A

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: -

APPLICABLE FACILITIES: **All**

11-08

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **Insulating Glass Units are exempt from CDPH requirements**

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

This HPD covers the following options available for Prelco Prel-UniT Insulating Products: - Glass: clear, ultraclear, tinted, reflective and low-E coatings, ceramic-based silkscreen and digital print. * optional laminated glass with both types of interlayer (PVB or ionomer) - Spacer: all types of warm edge spacers



MANUFACTURER INFORMATION

MANUFACTURER: **Prelco**
 ADDRESS: **94, Boulevard Cartier**
Rivière-du-Loup Quebec G5R 2M9, Canada
 WEBSITE: **www.prelco.ca**

CONTACT NAME: **Technical Assistance**
 TITLE: **Technical Assistance**
 PHONE: **1-800-463-1325**
 EMAIL: **prelco@prelco.ca**

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.