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.

**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.
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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### Glass

<table>
<thead>
<tr>
<th>%: 45.00 - 100.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD</strong>: 1000 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES</strong>: 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.</td>
</tr>
<tr>
<td><strong>OTHER MATERIAL NOTES</strong>: 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.</td>
</tr>
</tbody>
</table>

### Solid / Plate Glass

<table>
<thead>
<tr>
<th>%: 100.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID</strong>: 65997-17-3</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING METHOD</strong>: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE</strong>: 2018-12-14</td>
</tr>
<tr>
<td><strong>GS</strong>: LT-UNK</td>
</tr>
<tr>
<td><strong>HAZARD TYPE</strong>: None found</td>
</tr>
<tr>
<td><strong>AGENCY AND LIST TITLES</strong>: No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td><strong>SUBSTANCE NOTES</strong>: Soda-lime glass chemistry</td>
</tr>
</tbody>
</table>

### Secondary Sealant

<table>
<thead>
<tr>
<th>%: 1.10</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD</strong>: 1000 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES</strong>: 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.</td>
</tr>
<tr>
<td><strong>OTHER MATERIAL NOTES</strong>: 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.</td>
</tr>
</tbody>
</table>

### Stearic Acid

<table>
<thead>
<tr>
<th>%: 0.90 - 5.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID</strong>: 57-11-4</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING METHOD</strong>: Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE</strong>: 2018-12-14</td>
</tr>
<tr>
<td><strong>GS</strong>: LT-P1</td>
</tr>
<tr>
<td>Substance</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>ENDOCRINE</td>
</tr>
</tbody>
</table>

**SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED**

<table>
<thead>
<tr>
<th>ID: 70131-67-8</th>
</tr>
</thead>
</table>

**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  

None found  
No warnings found on HPD Priority Hazard Lists  

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

**CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>ID: 471-34-1</th>
</tr>
</thead>
</table>

**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  

None found  
No warnings found on HPD Priority Hazard Lists  

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

**LIMESTONE; CALCIUM CARBONATE**

<table>
<thead>
<tr>
<th>ID: 1317-65-3</th>
</tr>
</thead>
</table>

**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  

None found  
No warnings found on HPD Priority Hazard Lists  

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

**POLYDIMETHYL SILOXANE**

<table>
<thead>
<tr>
<th>ID: 9016-00-6</th>
</tr>
</thead>
</table>

**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  

None found  
No warnings found on HPD Priority Hazard Lists  

**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

<table>
<thead>
<tr>
<th>%: 0.00 - 4.40</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Reactant</th>
</tr>
</thead>
</table>

**WARNINGS**
- **SKIN IRRITATION**  
  - **EU - GHS (H-Statements)**  
    - H314 - Causes severe skin burns and eye damage

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

### DI-N-BUTYL Tin Oxide

**ID:** 818-08-6

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2018-12-14

<table>
<thead>
<tr>
<th>%: 0.00 - 0.10</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Reactant</th>
</tr>
</thead>
</table>

**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

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**WARNINGS**
- **CANCER**  
  - **Japan - GHS**  
    - Carcinogenic for ambient exposure - Category II

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

**ID:** 63148-62-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2018-12-14</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>%:</th>
<th>Impurity/Residual</th>
<th>GS:</th>
<th>LT-P1</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Impurity/Residual</th>
</tr>
</thead>
</table>

**WARNINGS:**
Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

**SUBSTANCE NOTES:** <1%, from siloxane polymer

### Tetrpropyl Orthosilicate

**ID:** 682-01-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2018-12-14</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>%:</th>
<th>0.00 - 4.40</th>
<th>GS:</th>
<th>NoGS</th>
<th>RC:</th>
<th>None</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Reactant</th>
</tr>
</thead>
</table>

**WARNINGS:**
No warnings found on HPD Priority Hazard Lists

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

### Desiccant

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD:</th>
<th>1000 ppm</th>
</tr>
</thead>
</table>

**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.
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

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 48.00</td>
<td>LT-UNK</td>
<td>UNK</td>
<td>No</td>
<td>Main material</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

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

### UNDISCLOSED

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 5.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Polymer</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

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

### UNDISCLOSED

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 3.75</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Polymer</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

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

### UNDISCLOSED

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 1.50</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Plasticizer</td>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Interlayer ingredient. See Other Material Notes.
<table>
<thead>
<tr>
<th>Substance</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
<td>0.00 - 0.03</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Stabilizer</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td></td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
<td>0.00 - 0.10</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Plasticizer</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td></td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
<td>0.00 - 0.15</td>
<td>BM-2</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
<tr>
<td></td>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
<td>0.00 - 0.02</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>UV Absorber</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Interlayer ingredient. See Other Material Notes.
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2018-12-14

%: 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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2018-12-14

%: 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
%
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

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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  
**%:**                    
**GS:**                  
**RC:**                  
**NANO:**                
**ROLE:**                

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>%: 0.10 - 0.40</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Powder coat ingredient</th>
</tr>
</thead>
</table>

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

**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

<table>
<thead>
<tr>
<th>%: 0.00 - 0.10</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Powder coat ingredient</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:** See Other Material Notes.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**PARAFFIN**  
**ID:** 8002-74-2

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2018-12-14</td>
</tr>
</tbody>
</table>

| %: 0.00 - 0.10 | GS: LT-UNK | RC: None | NANO: No | ROLE: Powder coat ingredient |

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
</tbody>
</table>

**PRIMARY SEALANT**

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD</th>
<th>RESIDUALS AND IMPURITIES CONSIDERED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 ppm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RESIDUALS AND IMPURITIES NOTES</th>
<th>OTHER MATERIAL NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>According to supplier, no residuals or impurities are present in the sealant.</td>
<td>Black colored PIB sealant.</td>
</tr>
</tbody>
</table>
### 1-PROPENE, 2-METHYL-, HOMOPOLYMER

**ID:** 9003-27-4  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2018-12-14

<table>
<thead>
<tr>
<th>%:</th>
<th>40.00 - 80.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GS:</strong></td>
<td>LT-UNK</td>
</tr>
<tr>
<td><strong>RC:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>NANO:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>ROLE:</strong></td>
<td>Main polymer</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>%:</th>
<th>10.00 - 30.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GS:</strong></td>
<td>LT-1</td>
</tr>
<tr>
<td><strong>RC:</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>NANO:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>ROLE:</strong></td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CDPH Standard Method V1.2 (Section 01350/CHPS) - N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2018-11-08</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>-</td>
</tr>
</tbody>
</table>

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
- **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 Unspecified (insufficient 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 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.