**Section 1: Summary**

### CONTENT INVENTORY

**Inventory Reporting Format**
- Nested Materials Method
- Basic Method

**Threshold Disclosed Per**
- Material
- Product

**Threshold level**
- 100 ppm
- 5,000 ppm
- Per OSHA MSDS
- Per GHS MSDS
- Other

**Residuals/Impurities**
- Are All Substances Above the Threshold Indicated?
  - Characterized
    - Percent Weight and Role Provided? Yes / No
  - Screened
    - Using Priority Hazard Lists with Results Disclosed? Yes / No

**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.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN BM-4/BM3</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYISOCYANURATE FOAM</td>
<td>POLYMERIC MDI (PMDI)</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>METHYLDIETHYLAMINE</td>
<td>METHYL ISOCYANATE</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>DIBUTYLDIMETHYLAMINE</td>
<td>DIBUTYLDIMETHYLAMINE</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>ETHYLDIETHYLAMINE</td>
<td>ETHYLDIETHYLAMINE</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>Methylene triphenyltrisiloxane (alkylsiloxane)</td>
<td>Methylene triphenyltrisiloxane (alkylsiloxane)</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>WATER</td>
<td>WATER</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>STEARIC ACID</td>
<td>STEARIC ACID</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>DIPHENYLAMINE</td>
<td>DIPHENYLAMINE</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>DIPHENYLMETHANE-2,4'-DIISOCYANATE (2,4'-MDI)</td>
<td>DIPHENYLMETHANE-2,4'-DIISOCYANATE (2,4'-MDI)</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI)</td>
<td>DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI)</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>ETHYLENE GLYCOL</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>GLASS FIBER</td>
<td>GLASS FIBER</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>CELLULOSE, MICROCRYSTALLINE (CELLULOSE FIBERS)</td>
<td>CELLULOSE, MICROCRYSTALLINE (CELLULOSE FIBERS)</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>SOFT GLASS AND GLASS - MINERAL FIBER</td>
<td>SOFT GLASS AND GLASS - MINERAL FIBER</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
<td>UNDISCLOSED</td>
<td>RES</td>
<td>MUL</td>
<td>CAN POLYETHER POLYOL LT</td>
</tr>
</tbody>
</table>

### VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

### INVENTORY AND SCREENING NOTES:

SOPRA-ISO is available in various thicknesses, up to 5 inches. The percentage of foam and facer will vary with thickness, which explains why ranges were given. The exact composition of the polyisocyanurate foam was not disclosed to protect proprietary information; ranges were also given. No substance other than those listed in this HPD have been added to the finished product during its manufacturing. Residuals or impurities could not be considered because information was not provided to the manufacturer by the raw materials vendors.

### CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

- VOC emissions: CDPH Standard Method - N/A
- Other: CAN/ULC-S107 (Drummondville)
- Other: CSA A123.21 (Drummondville)
- Other: FM 4470 (Drummondville)

### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.
## Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold.
- Nested Material Inventory method with individual Material-level thresholds.

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-standard](http://www.hpd-collaborative.org/hpd-2-1-standard)

### POLYISOCYANurate Foam

<table>
<thead>
<tr>
<th>%: 66.3000 - 92.4000</th>
<th>HPD URL: No HPD available for this material</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material Threshold:</strong></td>
<td>1000 ppm</td>
</tr>
<tr>
<td><strong>Residuals and Impurities Considered:</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Other Material Notes:** Residuals were considered through information disclosed to the manufacturer by the materials suppliers.

**Percentage of foam in SOPRA-ISO varies with thickness of the product as follows:**
- 1-inch SOPRA-ISO: 66.3% foam
- 2-inch SOPRA-ISO: 79.0% foam
- 4-inch SOPRA-ISO: 88.3% foam
- 5-inch SOPRA-ISO: 92.4% foam

The exact percentage of substances in foam were not disclosed to protect proprietary information. Ranges were given.

### POLYmeric MDI (PMDI)

**ID:** 9016-87-9

<table>
<thead>
<tr>
<th>%: 55.0000 - 65.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Isocyanate base for polymer backbone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td>ADEC - Asthmagens, Asthmagen (G) - generally accepted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RESTRICTED LIST:</strong></td>
<td>US EPA - PPT Chemical Action Plans</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RESPIRATORY:</strong></td>
<td>Inhalation sensitizer causing asthma and lung damage</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CANCER:</strong></td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RESPIRATORY:</strong></td>
<td>Sensitizing Substance Sah - Danger of airway &amp; skin sensitization</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Material Notes:** Polymeric MDI reacts completely during production of the foam.

### POLYether POLyl

**ID:** 9082-00-2

<table>
<thead>
<tr>
<th>%: 25.0000 - 30.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Polyol base for polymer backbone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td>None Found</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENDOCRINE:</strong></td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Material Notes:** Polyester polyol reacts completely during foam production.

### DIETHYLENE GLYCOL (DIETHYLENE GLYCOL)

**ID:** 111-46-6

<table>
<thead>
<tr>
<th>Impurity/Residual:</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td>TEDX - Potential Endocrine Disruptors, Potential Endocrine Disruptor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Material Notes:** This substance is an impurity found in polyester polyol and potassium-based catalyst.

### PENTANE

**ID:** 109-66-0

<table>
<thead>
<tr>
<th>%: 3.0000 - 10.0000</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Blowing agent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td>EU - GHS (H-Statements)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHRON AQUATIC:</strong></td>
<td>EU - GHS (H-Statements)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MAMMALIAN:</strong></td>
<td>EU - GHS (H-Statements)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MULTIPLE:</strong></td>
<td>German FEA - Substances Hazardous to Waters</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PHYSICAL HAZARD (REACTIVE):</strong></td>
<td>EU - GHS (H-Statements)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Material Notes:** Pentane isomer(s) used as blowing agent. Exact nature and percentages of isomers are not disclosed to protect proprietary information.

### POTASSIUM ACETATE

**ID:** 127-08-2

<table>
<thead>
<tr>
<th>%: 0.1000 - 1.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Catalyst</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARDS:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHRON AQUATIC:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MAMMALIAN:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MULTIPLE:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PHYSICAL HAZARD (REACTIVE):</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other Material Notes:** Exact nature and percentages of isomers are not disclosed to protect proprietary information.
2-ETHYLHEXANOIC ACID, POTASSIUM SALT

**ID:** 3164-85-0

**%:** 0.1000 - 2.0000

**GS:** LT-UNK

**RC:** None

**NANO:** No

**ROLE:** Catalyst

**HAZARDS:**
None Found

**AGENCY(IES) WITH WARNINGS:**
None Found

**SUBSTANCE NOTES:**
Catalyst for polymerization.

---

BIS(2-DIMETHYLAMINOETHYL)(METHYL)AMINE

**ID:** 3030-47-5

**%:** 0.1000 - 1.0000

**GS:** LT-P1

**RC:** None

**NANO:** No

**ROLE:** Catalyst

**HAZARDS:**
EU - GHS (H-Statements)
H311 - Toxic in contact with skin

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

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

**SUBSTANCE NOTES:**
Catalyst for polymerization.

---

POLYSILOXANE

**ID:** 9011-19-2

**%:** 0.1000 - 1.0000

**GS:** NoGS

**RC:** None

**NANO:** No

**ROLE:** Surfactant

**HAZARDS:**
None Found

**SUBSTANCE NOTES:**
Foam control agent.

---

TRIS(1-CHLORO-2-PROPYL)PHOSPHATE (TCPP, TMCP)

**ID:** 13674-84-5

**%:** 0.1000 - 5.0000

**GS:** BM-U

**RC:** None

**NANO:** No

**ROLE:** Fire retardant

**HAZARDS:**
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

**PBT**
EHP - San Antonio Statement on BFRs & CFRs
Flame retardant substance class of concern for PB&T & long range transport

**RESTRICTED LIST**
US EPA - PPT Chemical Action Plans
TSCA Work Plan chemical - ongoing chemical (risk) assessment

**SUBSTANCE NOTES:**
TCPP is used as flame retardant.

---

WATER

**ID:** 7732-18-5

**%:** 0.1000 - 1.0000

**GS:** BM-4

**RC:** None

**NANO:** No

**ROLE:** Co-blowing agent

**HAZARDS:**
None Found

**SUBSTANCE NOTES:**
Plain water

---

METHYLENE BISPHENYL DISOCYANATE (PURE MDI) (METHYLENE BISPHENYL DISOCYANATE (PURE MDI))

**ID:** 101-68-8

**%:** Impurity/Residual

**GS:** LT-UNK

**RC:** None

**NANO:** No

**ROLE:** Impurity/Residual

**HAZARDS:**
RESPIRATORY
ACEC - Asthmagens
Asthmagen (G) - generally accepted

**RESTRICTED LIST**
US EPA - PPT Chemical Action Plans
EPA Chemical of Concern - Action Plan published
**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)  
H319 - Causes serious eye irritation

**RESPIRATORY**  
EU - GHS (H-Statements)  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**CANCER**  
EU - GHS (H-Statements)  
H351 - Suspected of causing cancer

**RESPIRATORY**  
US EPA - PPT Chemical Action Plans  
Inhalation sensitizer causing asthma and lung damage

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

**RESPIRATORY**  
MAK  
Sensitizing Substance Sah - Danger of airway & skin sensitization

**SUBSTANCE NOTES:**  
This substance is an impurity in polymeric MDI.

---

**DIPHENYLMETHANE-2,4'-DIISOCYANATE (2,4'-MDI) (DIPHENYLMETHANE-2,4'-DIISOCYANATE (2,4'-MDI))**  
ID: 5873-54-1

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

**HAZARDS:**  
AGENCIES WITH WARNINGS:

**RESTRICTED LIST**  
US EPA - PPT Chemical Action Plans  
EPA Chemical of Concern - Action Plan published

**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)  
H319 - Causes serious eye irritation

**RESPIRATORY**  
EU - GHS (H-Statements)  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**CANCER**  
EU - GHS (H-Statements)  
H351 - Suspected of causing cancer

**RESPIRATORY**  
US EPA - PPT Chemical Action Plans  
Inhalation sensitizer causing asthma and lung damage

**SUBSTANCE NOTES:**  
This substance is an impurity in polymeric MDI.

---

**DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI) (DIPHENYLMETHANE-2,2'-DIISOCYANATE (2,2'-MDI))**  
ID: 2536-05-2

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

**HAZARDS:**  
AGENCIES WITH WARNINGS:

**RESTRICTED LIST**  
US EPA - PPT Chemical Action Plans  
EPA Chemical of Concern - Action Plan published

**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)  
H319 - Causes serious eye irritation

**RESPIRATORY**  
EU - GHS (H-Statements)  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**CANCER**  
EU - GHS (H-Statements)  
H351 - Suspected of causing cancer

**RESPIRATORY**  
US EPA - PPT Chemical Action Plans  
Inhalation sensitizer causing asthma and lung damage

**SUBSTANCE NOTES:**  
This substance is an impurity in polymeric MDI.

---

**ETHYLENE GLYCOL (ETHYLENE GLYCOL)**  
ID: 107-21-1

<table>
<thead>
<tr>
<th>%</th>
<th>Impurity/Residual</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Impurity/Residual</td>
</tr>
</tbody>
</table>

**HAZARDS:**  
AGENCIES WITH WARNINGS:

**DEVELOPMENTAL**  
CA EPA - Prop 65  
Developmental toxicity

**DEVELOPMENTAL**  
US NIH - Reproductive & Developmental Monographs  
Clear Evidence of Adverse Effects - Developmental Toxicity

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**SUBSTANCE NOTES:**  
This substance is an impurity in potassium acetate.

---

**GLASS FIBER REINFORCED CELLULOSIC FACER**  
%: 7.6000 - 33.7000  
HPD URL: No HPD available for this material
Residuals were not considered because this information was not disclosed to the manufacturer by the materials suppliers.

Percentage of cellulosic facer in SOPRA-ISO varies with thickness of the product as follows: 1-inch SOPRA-ISO: 33.7% facer; 2-inch SOPRA-ISO: 21.0% facer; 4-inch SOPRA-ISO: 11.7% facer; 5-inch SOPRA-ISO: 7.6% facer.

### Celulose, Microcrystalline (Cellulose Fibers)

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>9004-34-6</td>
<td>60.0000 - 75.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Main component of board facer material</td>
</tr>
</tbody>
</table>

**Substance Notes:** Cellulosic base for board facer material.

### Solid Glass and Glass / Mineral Fiber (See Variants)

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Role</th>
<th>Hazards</th>
<th>Agency(Ses) With Warnings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-17-3</td>
<td>10.0000 - 10.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Reinforcing for mat</td>
<td>AGENCY(Ses) With Warning</td>
<td>EU - GHS (H-Statements)</td>
<td>H51 - Suspected of causing cancer</td>
</tr>
</tbody>
</table>

**Substance Notes:** Continuous filament glass fiber.

### Wood Dust - Unspecified (Wood Dust - Unspecified)

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Role</th>
<th>Hazards</th>
<th>Agency(Ses) With Warnings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not registered</td>
<td>0.0000 - 75.0000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Alternate component of board facer material</td>
<td>AGENCY(Ses) With Warning</td>
<td>EU - GHS (H-Statements)</td>
<td>H51 - Suspected of causing cancer</td>
</tr>
</tbody>
</table>

**Substance Notes:** Wood dust may be used to replace a portion of the cellulose fibers as the main component in the facer material.

### Undisclosed

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Role</th>
<th>Hazards</th>
<th>Agency(Ses) With Warnings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A-1</td>
<td>0.0000 - 15.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Sizing agent</td>
<td>AGENCY(Ses) With Warning</td>
<td>N/A-1 - Undisclosed additive used to control water absorption of facer material.</td>
<td></td>
</tr>
</tbody>
</table>

**Substance Notes:** Undisclosed additive used to control water absorption of facer material.

### Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**VOC Emissions**

<table>
<thead>
<tr>
<th>Certifying Party</th>
<th>CDPH Standard Method</th>
<th>Issue Date</th>
<th>Expiry Date</th>
<th>Certifier or Lab</th>
</tr>
</thead>
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<td>N/A</td>
<td>2018-02-26</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Certification and Compliance Notes:** N/A - This product is an exterior product therefore is not to be tested for VOC emissions.

**Other**

SOPRA-ISO

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**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.

**DUOTACK**  
**HPD URL:** No HPD available

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**  
SOPRA-ISO can be installed by various methods. Installation with DUOTACK adhesive (0 g/L VOC content) is one of these methods. DUOTACK is installed in ribbons spaced as specified to obtain required wind uplift resistance. SOPRA-ISO panels are then laid in adhesive.

**FASTENER**  
**HPD URL:** NO HPD available

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**  
SOPRA-ISO can be installed by various methods. Installation with fasteners (screws and plates) is one of these methods. SOPRA-ISO boards are laid down and metal fasteners are screwed through the boards at spacing determined by the required wind uplift resistance.

**HOT ASPHALT**  
**HPD URL:** No HPD available

**CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**  
SOPRA-ISO can be installed by various methods. Installation with hot asphalt is one of these methods. Asphalt is heated in a kettle to a liquid form and installed on the roof deck with a mop. SOPRA-ISO is then laid down on the asphalt. Upon cooling, asphalt solidifies and holds the boards.

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**Section 5: General Notes**

Residuals were considered through information provided to the manufacturer by raw materials suppliers.

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**Section 6: References**

**MANUFACTURER INFORMATION**

**MANUFACTURER:** Soprema  
**ADDRESS:** 1688 Jean-Berchmans-Michaud  
Drummondville Quebec J2C 8E9, Canada  
**WEBSITE:** www.soprema.ca

**CONTACT NAME:** Jean-François Côté  
**TITLE:** Director, Standards and Scientific Affairs  
**PHONE:** 819-478-8166 x.3290  
**EMAIL:** jfcote@soprema.ca

**KEY**

SOPRA-ISO  
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Hazard Types
- AQU Aquatic toxicity
- CAN Cancer
- DEV Developmental toxicity
- END Endocrine activity
- EYE Eye irritation/corrosivity
- GEN Gene mutation
- GLO Global warming
- MAR 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
- SKE 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.