Skyline Design AST I™ Glass

Product ID: Multiple (See Description)
Classification: 08 81 13.00 Openings (door ways): Decorative Glass Glazing

Website: www.skydesign.com
Manufacturer: Skyline Design
Address: 1240 N. Homan Ave.
Chicago, Illinois 60651

Description: This Health Product Declaration Covers 1/4” -1/2” thick Skyline Design AST I™ glass products with any printed imagery. Components listed as undisclosed are listed as such to protect the intellectual property of Skyline Design and/or our suppliers. These components have been screened against the HPD Priority Hazard Lists, however, and any hazards found are reported in this HPD.

Release Date: 2014-12-29
Expiry Date: 2017-12-29

SUMMARY DISCLOSURE

The content of this product was assessed for health hazard warnings as required using Pharos.

Residuals Disclosure
- Measured 100 ppm (ideal)
- Predicted by process chemistry
- As per MSDS (1,000 & 10,000 ppm)
- Not disclosed
- Other

Full Disclosure of Intentional Ingredients: Yes
Full Disclosure of Known Hazards: Yes
Disclosure Notes: Based on HPD or MSDS disclosures by Skyline Design’s suppliers, the glass substrate is not expected to contain any residuals at standard MSDS reporting levels (10,000 ppm and 1,000 ppm). Some components of the finished AST I™ product are proprietary and Skyline Design has not yet been able obtain detailed data on the intentional ingredients and residuals for these components from our material suppliers. For those components where Skyline Design has been able to obtain this information, there are no Benchmark 1 or Possible Benchmark 1 residuals predicted by process chemistry calculations reported by material suppliers.

Contents in Descending Order of Quantity
GLASS / MINERAL FIBER, Undisclosed (Coating Resin), Undisclosed (Coating Flattener), Unknown, Unknown, Unknown, Unknown, Unknown, Unknown, Undisclosed (Coating UV Inhibitor), Undisclosed (Coating Adhesion Promoter), Undisclosed (Coating UV Inhibitor), Undisclosed (Coating UV Inhibitor), Undisclosed (Coating UV Inhibitor), Undisclosed (Coating Leveling Agent), Undisclosed (Coating UV Inhibitor)

Hazard: PBT (Persistent Bioaccumulative Toxic), Cancer, Gene Mutation

Highest concern GreenScreen score - List Translator Benchmark 1
- Neurotoxicity
- Mammal
- Skin or Eye
- Aquatic toxicity
- Land toxicity
- Physical hazard
- Global warming
- Ozone depletion

Total VOC Content: N/A
Regulatory (g/L): N/A

Does the product contain exempt VOCs?: N/A
Are there VOC-free tints available?: No

Notes: Not tested

Certifications + Compliance
VOC Emissions: Not tested
VOC Content: N/A
The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an “open standard” developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit hpdcollaborative.org.

CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level. Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.

**GS**: GreenScreen Benchmark, **RC**: Recycled Content, **PC**: Post Consumer, **PI**: Post Industrial (Pre-consumer), **BO**: Both; **Nano**: comprised of nanoscale particles or nanotechnology

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS RN</th>
<th>% weight</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard A</td>
<td>Warning A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Hazard B</td>
<td>Warning B</td>
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<tr>
<td>Hazard C</td>
<td>Warning C</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Hazard D</td>
<td>Warning D</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Hazard E</td>
<td>Warning E</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**GLASS / MINERAL FIBER**

65997-17-3 98.5 - 99.76 %  LT-U  U  U  Glass Substrate

None found

No warnings found on HPD Priority lists

Monolithic low-iron glass. A content range is provided because the glass content percentage varies based on glass thickness.

Undisclosed (Coating Resin)

Undisclosed 0.18 - 0.36 %  LT-U  N  U  Coating: Resin

None found

No warnings found on HPD Priority lists

A content range is provided because coating resin content percentage varies based on glass thickness.

Undisclosed (Coating Flattener)

Undisclosed 0.05 - 0.09 %  LT-1  N  U  Coating: Flattener

CANCER

NIOSH-C: Occupational carcinogen

A content range is provided because flattener content percentage varies based on glass thickness.

Unknown

Unknown 0 - 0.3 %  U  U  White Ink

Unknown

Not disclosed by supplier

The white ink composition is proprietary and has not been disclosed by Skyline Design's supplier. A content range is provided because the white ink content percentage varies based on the imagery printed and the glass thickness.

Unknown

Unknown 0 - 0.23 %  U  U  Yellow Ink

Unknown

Not disclosed by supplier

The yellow ink composition is proprietary and has not been disclosed by Skyline Design's supplier. A content range is provided because the yellow ink content percentage varies based on the imagery printed and the glass thickness.
<table>
<thead>
<tr>
<th>Unknown</th>
<th>Unknown</th>
<th>0 - 0.21 %</th>
<th>U</th>
<th>U</th>
<th>Black Ink</th>
</tr>
</thead>
</table>

The black ink composition is proprietary and has not been disclosed by Skyline Design's supplier. A content range is provided because the black ink content percentage varies based on the imagery printed and the glass thickness.

<table>
<thead>
<tr>
<th>Unknown</th>
<th>Unknown</th>
<th>0 - 0.15 %</th>
<th>U</th>
<th>U</th>
<th>Cyan Ink</th>
</tr>
</thead>
</table>

The cyan ink composition is proprietary and has not been disclosed by Skyline Design's supplier. A content range is provided because the cyan ink content percentage varies based on the imagery printed and the glass thickness.

<table>
<thead>
<tr>
<th>Unknown</th>
<th>Unknown</th>
<th>0 - 0.14 %</th>
<th>U</th>
<th>U</th>
<th>Magenta Ink</th>
</tr>
</thead>
</table>

The magenta ink composition is proprietary and has not been disclosed by Skyline Design's supplier. A content range is provided because the magenta ink content percentage varies based on the imagery printed and the glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating UV Inhibitor)</th>
<th>Undisclosed</th>
<th>0 - 0.01 %</th>
<th>N</th>
<th>U</th>
<th>Coating: UV Inhibitor</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority lists

Content range is 0.003% to 0.005% by weight. This range is provided because UV inhibitor content percentage varies based on glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating UV Inhibitor)</th>
<th>Undisclosed</th>
<th>0 - 0.01 %</th>
<th>LT-P1</th>
<th>N</th>
<th>U</th>
<th>Coating: UV Inhibitor</th>
</tr>
</thead>
</table>

PBT

DSL: Persistent, Bioaccumulative and inherently Toxic (PBiT) to aquatic organisms

MULTIPLE

VwVwS: Class 2 Hazard to Waters

Content range is 0.004% to 0.008% by weight. This range is provided because UV inhibitor content percentage varies based on coating color and glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating UV Inhibitor)</th>
<th>Undisclosed</th>
<th>0 %</th>
<th>LT-P1</th>
<th>N</th>
<th>U</th>
<th>Coating: UV Inhibitor</th>
</tr>
</thead>
</table>

MULTIPLE

VwVwS: Class 2 Hazard to Waters

Content range is 0.00005% to 0.0001% by weight. This range is provided because UV inhibitor content percentage varies based on glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating Leveling Agent)</th>
<th>Undisclosed</th>
<th>0 %</th>
<th>LT-U</th>
<th>N</th>
<th>U</th>
<th>Coating: Leveling Agent</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority lists

Content range is 0.0006% to 0.001%. This content range is provided because leveling agent content percentage varies based on glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating UV Inhibitor)</th>
<th>Undisclosed</th>
<th>0 %</th>
<th>LT-P1</th>
<th>N</th>
<th>U</th>
<th>Coating: UV Inhibitor</th>
</tr>
</thead>
</table>

MULTIPLE

VwVwS: Class 2 Hazard to Waters

Content range is 0.001% to 0.002% by weight. This range is provided because UV inhibitor content percentage varies based on glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating UV Inhibitor)</th>
<th>Undisclosed</th>
<th>0 %</th>
<th>N</th>
<th>U</th>
<th>Coating: UV Inhibitor</th>
</tr>
</thead>
</table>

None found

No warnings found on HPD Priority lists

Content range is 0.002% to 0.004% by weight. This range is provided because UV inhibitor content percentage varies based on glass thickness.

<table>
<thead>
<tr>
<th>Undisclosed (Coating Adhesion Promoter)</th>
<th>Undisclosed</th>
<th>0 %</th>
<th>LT-U</th>
<th>N</th>
<th>U</th>
<th>Coating: Adhesion Promoter</th>
</tr>
</thead>
</table>

MAMMALIAN

EU R-Phrases: R22: Harmful if swallowed.

SKIN IRRITATION

EU H-Statements: H314 Causes severe skin burns and eye damage (also in EU R-Phrases)
CERTIFICATIONS AND COMPLIANCE

Certifying Party = First: Manufacturer’s self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

Applicable facilities = Manufacturing sites to which testing applies.

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard or Certification</th>
<th>Certifier or Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Issue Date</td>
<td>Expiry Date</td>
</tr>
<tr>
<td>Applicable Facilities</td>
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<td>Certificate URL</td>
</tr>
<tr>
<td>Notes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VOC Emissions

Not tested

VOC Content

N/A

Recycled Content

Not tested

Other


ACCESSORY MATERIALS

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products.

Note: This declaration is not intended to address hazards of the installation process.

<table>
<thead>
<tr>
<th>Required or Recommended Product</th>
<th>URL for Companion Health Product Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water and distilled white vinegar (4:1 mixture)</td>
<td></td>
</tr>
</tbody>
</table>

Skyline Design recommends cleaning the glass surface of AST™ glass panels with a 4:1 mixture of water and distilled white vinegar. Pigment, ammonia, and residue free glass cleaners may also be used. It is the responsibility of the client and/or installer to test any alternate cleaning products for compatibility.