OPACI-COAT-300® Water-Based Silicone Spandrel by ICD High Performance Coatings

CLASSIFICATION: 08 81 00 Openings: Spandrel Glazing

PRODUCT DESCRIPTION: OPACI-COAT-300® has been used on spandrel and wall cladding glass on thousands of buildings worldwide – including some of the world’s prominent commercial projects. Using OPACI-COAT-300® allows architects and designers to access a virtually unlimited color palette – with one of the strictest color tolerances – to create a “stand-out” project or work toward a harmonious appearance from vision glass to spandrel glass. Architects, designers and facade consultants can count on the material to not reduce the strength of heat strengthened glass, and when specified, provide glass fallout resistance. "OPACI-COAT-300®" is the trade name for a patented one component, water-based silicone coating that is fully cured to a tack-free silicone elastomeric film, providing opacification in any color to glass and related construction materials. This HPD covers OPACI-COAT-300® as applied to glass and fully cured.

Section 1: Summary

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 2 of 2 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
- All substances disclosed by Name (Specific or Generic) and Identifier.

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
--- | --- | --- | --- | ---

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) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen
Benchmark or List translator Score ... LT-1
Nanomaterial ... No
<table>
<thead>
<tr>
<th>Third Party Verified?</th>
<th>PREPARER:</th>
<th>VERIFIER:</th>
<th>SCREENING DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Self-Prepared</td>
<td></td>
<td>2019-09-09</td>
</tr>
<tr>
<td>No</td>
<td></td>
<td>VERIFICATION #:</td>
<td>2019-09-09</td>
</tr>
</tbody>
</table>

PUBLISHED DATE: 2019-09-09  
EXPIRY DATE: 2022-09-09
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.hpdcollaborative.org/hpd-2-1-1-standard](http://www.hpdcollaborative.org/hpd-2-1-1-standard)

### SOLID / PLATE GLASS

- **%**: 98.60 - 99.10
- **Product Threshold**: 100 ppm
- **Residuals and Impurities Considered**: Yes

**Residuals and Impurities Notes**: Residuals and Impurities were “Considered”, as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on supplier SDS and as predicted by process chemistry (Pharos CML).

**Other Material Notes**: Percent by weight of material reported as range to account for possible differences in glass type selected, and for the numerous colors of OPACI-COAT-300 available for specification.

### SOLID / PLATE GLASS

- **ID**: 65997-17-3
- **Hazard Screening Method**: Pharos Chemical and Materials Library
- **Hazard Screening Date**: 2019-09-09
- **%**: 100.00 - 100.00
- **GS**: LT-UNK
- **RC**: None
- **Nano**: No
- **Role**: Transparent Structural Component

**Hazard Type**

None found

**Agency and List Titles**

No warnings found on HPD Priority Hazard Lists

**Substance Notes**: Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

### OPACI-COAT-300® (CURED, DRIED)

- **%**: 0.90 - 1.40
- **Product Threshold**: 100 ppm
- **Residuals and Impurities Considered**: Yes

**Residuals and Impurities Notes**: Residuals and Impurities were “Considered”, as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on direct testing (FTIR and GC/MS), supplier SDS, and as predicted by process chemistry (Pharos CML).

**Other Material Notes**: Percent by weight of substances reported as range to protect proprietary formulation, and to account for the numerous colors of OPACI-COAT-300 available for specification.

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

- **ID**: 70131-67-8
- **Hazard Screening Method**: Pharos Chemical and Materials Library
- **Hazard Screening Date**: 2019-09-09
- **%**: 75.00 - 85.00
- **GS**: BM-2
- **RC**: None
- **Nano**: No
- **Role**: Opacification Coating for Glass
### HAZARD TYPE
None found

No warnings found on HPD Priority Hazard Lists

### SUBSTANCE NOTES:
Identified on the US EPA Safer Chemical Ingredient List. Crosslinked Polydimethylsiloxane. Water-based silicone coating that is fully cured to a tack-free silicone elastomeric film providing opacification in any color to glass and related construction materials. GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool.

### SILICA, AMORPHOUS

**ID:** 7631-86-9

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-09-09</td>
</tr>
<tr>
<td>%: 10.00 - 20.00</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Reinforcing Agent</td>
<td></td>
</tr>
</tbody>
</table>

**WARNINGS**

- **CANCER** - GHS - Japan: Carcinogenicity - Category 1A [H350]
- **CANCER** - GHS - Australia: H350i - May cause cancer by inhalation

**SUBSTANCE NOTES:** Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product.

### ALUMINA TRIHYDRATE

**ID:** 21645-51-2

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-09-09</td>
</tr>
<tr>
<td>%: 0.00 - 2.00</td>
<td>GS: BM-2</td>
</tr>
<tr>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Filler</td>
<td></td>
</tr>
</tbody>
</table>

**WARNINGS**

- **RESPIRATORY** - AOEC - Asthmagens: Asthmagen (Rs) - sensitizer-induced

**SUBSTANCE NOTES:** GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool. Form-specific hazards not expected to apply when substance bound in the matrix of the cured and dried product.

### TITANIUM DIOXIDE

**ID:** 13463-67-7

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2019-09-09</td>
</tr>
<tr>
<td>%: 0.00 - 12.00</td>
<td>GS: LT-1</td>
</tr>
<tr>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>ROLE: Pigment</td>
<td></td>
</tr>
</tbody>
</table>

**WARNINGS**

- **RESPIRATORY** - AOEC - Asthmagens: Asthmagen (Rs) - sensitizer-induced

**SUBSTANCE NOTES:** Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product.
<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>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.

### C.I. PIGMENT YELLOW 227, NIOBIUM SULFUR TIN ZINC OXIDE

**ID:** 1374645-21-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

<table>
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<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 12.00</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

HAZARD SCREENING DATE: 2019-09-09

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Substance not present in all colors; contact manufacturer if more information is required.

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

**ID:** 85536-73-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 12.00</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

HAZARD SCREENING DATE: 2019-09-09

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Substance not present in all colors; contact manufacturer if more information is required.

### NICKEL RUTILE YELLOW

**ID:** 8007-18-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 12.00</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

HAZARD SCREENING DATE: 2019-09-09

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Substance not present in all colors; contact manufacturer if more information is required.
<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>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be a human Carcinogen</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.

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### C.I. PIGMENT GREEN 50

**ID:** 68186-85-6

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

**HAZARD SCREENING DATE:** 2019-09-09

<table>
<thead>
<tr>
<th>%: 0.00 - 12.00</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td>AOEC - Asthmagens</td>
<td>Asthmagen (G) - generally accepted</td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be a human Carcinogen</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 2 - Considered to be carcinogenic for man</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>MAK</td>
<td>Germ Cell Mutagen 3a</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.

---

### FERRIC OXIDE

**ID:** 1309-37-1

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

**HAZARD SCREENING DATE:** 2019-09-09

<table>
<thead>
<tr>
<th>%: 0.00 - 12.00</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
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**HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool. Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.
### C.I. PIGMENT BLUE 28

**ID:** 1345-16-0

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

**HAZARD SCREENING DATE:** 2019-09-09

<table>
<thead>
<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 10.00</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>RESPIRATORY</th>
<th>AOECS - Asthmagens</th>
<th>Asthmagen (G) - generally accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 2 - Considered to be carcinogenic for man</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>MAK</td>
<td>Germ Cell Mutagen 3a</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.

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### FERRIC OXIDE YELLOW

**ID:** 51274-00-1

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

**HAZARD SCREENING DATE:** 2019-09-09

<table>
<thead>
<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 10.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

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

**SUBSTANCE NOTES:** Substance not present in all colors; contact manufacturer if more information is required.

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### CARBON BLACK

**ID:** 1333-86-4

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

**HAZARD SCREENING DATE:** 2019-09-09

<table>
<thead>
<tr>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>ROLE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00 - 6.00</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>CANCER</th>
<th>US CDC - Occupational Carcinogens</th>
<th>Occupational Carcinogen</th>
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</thead>
<tbody>
<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>
C.I. PIGMENT GREEN 36

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-09-09

%: 0.00 - 6.00  
GS: LT-UNK  
RC: None  
NANO: No  
ROLE: Pigment

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-09-09

%: 0.00 - 6.00  
GS: LT-UNK  
RC: None  
NANO: No  
ROLE: Pigment

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Substance not present in all colors; contact manufacturer if more information is required.

C.I. PIGMENT BLUE 15

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-09-09

%: 0.00 - 6.00  
GS: BM-3  
RC: None  
NANO: No  
ROLE: Pigment

None found  
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: GreenScreen Benchmark® assessment score of BM-3 was provided by the HPD Builder Tool. Substance not present in all colors; contact manufacturer if more information is required.

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

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2019-09-09

%: 0.00 - 6.00  
GS: LT-P1  
RC: None  
NANO: No  
ROLE: Pigment

MULTIPLE  
German FEA - Substances Hazardous to Waters  
Class 3 - Severe Hazard to Waters
SUBSTANCE NOTES: Form-specific hazards not expected to apply when substance is bound in the matrix of the cured and dried product. Substance not present in all colors; contact manufacturer if more information is required.
**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>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Ridgefield, WA USA</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2017-09-01</td>
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<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>Berkeley Analytical</td>
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</tbody>
</table>


**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**

ICD values sustainability, responsibility, quality and innovation. Our purpose is to create healthier working and living spaces through chemistry.
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: ICD High Performance Coatings
ADDRESS: 7350 S Union Ridge Parkway
Ridgefield WA 98642, USA
WEBSITE: www.icdcoatings.com

CONTACT NAME: Tim Krytenberg
TITLE: Lab Manager
PHONE: +1 360-546-2286
EMAIL: tim.krytenberg@icdcoatings.com

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.