

Section 1: Summary

CONTENT INVENTORY

- Threshold per material
- 100 ppm
 - 1,000 ppm
 - Per GHS SDS
 - Per OSHA MSDS
 - Other

Residuals and impurities considered in 0 of 2 materials

- see Section 2: Material Notes
- see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

LIQUID NANOTINT CLEAR [POLYMETHYL METHACRYLATE (PMMA) **LT-UNK** | RES BUTYL ACETATE **LT-UNK** PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA) **LT-UNK** 2-BUTOXYETHYL ACETATE **LT-UNK** | MAM | CAN 2-(2'-HYDROXY-5'-METHYLPHENYL)BENZOTRIAZOLE **LT-UNK** DICESIUM;DIOXIDO(DIOXO)TUNGSTEN **UNK** DIINDIUM TRIOXIDE **LT-UNK**] LNT HARDENER [HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER) **LT-UNK** PENTANEDIOIC ACID, DIMETHYL ESTER **LT-UNK**]

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-UNK
Nanomaterial..... Yes

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 352 Regulatory (g/l): 636
Does the product contain exempt VOCs: Yes
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

VOC emissions: VOC Emissions per GC-FID-MS profiling

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: December 19, 2016	EXPIRY DATE*: December 19, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: December 19, 2016	* or within 3 months of significant change in product contents

*See HPDC website for details



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

LIQUID NANOTINT CLEAR %: 90.0000 HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes: Residuals and impurities fall below inventory threshold

POLYMETHYL METHACRYLATE (PMMA)

ID: 9011-14-7

%: 23.0000 - 35.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Adhesion

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Range, amount varies over time

BUTYL ACETATE

ID: 123-86-4

%: 23.0000 - 35.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Percentage range due to batch variation

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA)

ID: 108-65-6

%: 19.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Solvent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

2-BUTOXYETHYL ACETATE

ID: 112-07-2

%: 10.0000 - 20.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Solvent

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

MAMMALIAN

EU - R-phrases

R20 - Harmful by Inhalation (gas or vapor or dust/mist)

MAMMALIAN

EU - R-phrases

R21 - Harmful in Contact with Skin

CANCER

MAK

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

SUBSTANCE NOTES: Percentage range due to batch variation

2-(2'-HYDROXY-5'-METHYLPHENYL)BENZOTRIAZOLE

ID: 2440-22-4

%: 7.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: UV Absorber

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

DICESIUM;DIOXIDO(DIOXO)TUNGSTEN

ID: 52350-17-1

%: 4.0000 - 4.0000

GS: UNK

RC: None

NANO: YES

ROLE: IR Absorber

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Range, amount varies over time

DIINDIUM TRIOXIDE

ID: 1312-43-2

%: 1.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: YES

ROLE: IR Absorber

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Range, amount varies over time

LNT HARDENER

%: 10.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes: Residuals and impurities fall below inventory threshold

HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER)

ID: 28182-81-2

%: 75.0000 - 85.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Hardening polymer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Percentage range due to batch variation

PENTANEDIOIC ACID, DIMETHYL ESTER

ID: 1119-40-0

%: 15.0000 - 25.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Adhesive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Range, amount varies over time

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

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: All

CERTIFICATE URL: <https://drywired.box.com/s/m74lgtpb1w0qfve0xrpgw81dtpkpnmv>

CERTIFICATION AND COMPLIANCE NOTES: Testing conducted to demonstrate that the cured Liquid Nanotint coating does not off-gas any VOC emissions.

VOC Emissions per GC-FID-MS profiling

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2015-06-17	0000-00-00	Avomeen Analytical Services

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.

LNT GLASS PRIMER

HPD URL: https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_198_LNT_Glass_Primer_1482190386.pdf

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: For all installations where superhydrophilic effect is not already observed on glass surface

Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: Drywired, LLC

CONTACT NAME: Alex Nestic

ADDRESS: 5524 Alcoa Ave
Vernon, CA 90058
United States

TITLE: Vice President

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

GLO Global warming

PHY Physical Hazard (reactive)

CAN Cancer

MAM Mammalian/systemic/organ toxicity

REP Reproductive toxicity

DEV Developmental toxicity

MUL Multiple hazards

RES Respiratory sensitization

END Endocrine activity

NEU Neurotoxicity

SKI Skin sensitization/irritation/corrosivity

EYE Eye irritation/corrosivity

OZO Ozone depletion

LAN Land Toxicity

GEN Gene mutation

PBT Persistent Bioaccumulative Toxic

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

LT-P1 List Translator Possible Benchmark 1

BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2 Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.