

CLASSIFICATION:

created via: HPDC Online Builder

PRODUCT DESCRIPTION: NOVALIS LVT IS MADE WITH OVER 50% CALCIUM CARBONATE (AKA LIMESTONE, A GLOBALLY ABUNDANT RESOURCE), VIRGIN PVC RESIN OR NOVALIS POST-CONSUMER RECLAIMED LVT TO ENSURE THE PRODUCT CONTAINS THE CLEANEST AND ONLY KNOWN INGREDIENTS.

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 17 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

CALCIUM CARBONATE [CALCIUM CARBONATE **BM-3**] POLYVINYL CHLORIDE (PVC) [POLYVINYL CHLORIDE (PVC) **LT-UNK** | RES] CHLORO METHOXY FAT DIETHYLENE GLYCOL DINITRATE BIS(2-ETHYLHEXYL) TEREPHTHALATE [BIS(2-ETHYLHEXYL) TEREPHTHALATE **BM-3**] EPOXIDIZED SOYBEAN OIL [EPOXIDIZED SOYBEAN OIL **LT-UNK**] CALCIUM STEARATE [CALCIUM STEARATE **LT-UNK**] ZINC STEARATE [ZINC STEARATE **LT-UNK**] CARBON BLACK [CARBON BLACK **BM-1** | CAN] GLASS/MINERAL FIBER [GLASS / MINERAL FIBER **LT-UNK** | CAN] 1,6-HEXANEDIOL DIACRYLATE [1,6-HEXANEDIOL DIACRYLATE **LT-P1** | EYE | SKI | MUL] DIPROPYLENE GLYCOL DIACRYLATE [DIPROPYLENE GLYCOL DIACRYLATE **LT-UNK**] 2-(METHACRYLOYLOXY)ETHANOL [2-(METHACRYLOYLOXY)ETHANOL **LT-UNK** | EYE | SKI] TRIMETHYLOLPROPANE TRIACRYLATE [TRIMETHYLOLPROPANE TRIACRYLATE **LT-UNK** | EYE | SKI | RES] TRIPROPYLENE GLYCOL DIACRYLATE [TRIPROPYLENE GLYCOL DIACRYLATE **LT-P1** | EYE | SKI | AQU | MUL] POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)- [POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)- **LT-P1** | MUL] 1-PROPANONE, 2-HYDROXY, 2-METHYL, 1-PHENYL [1-PROPANONE, 2-HYDROXY-2-METHYL-1-PHENYL- **LT-UNK**] DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE [DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE **LT-P1** | REP | MUL]

Number of Greenscreen BM-4/BM3 contents..... 2
Contents highest concern GreenScreen Benchmark or List translator Score..... BM-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

As per the substances' CAS numbers, Octadecaneic Acid and Epoxy Resin, are very new, GreenScreen Benchmark or LT scores have not been calculated yet. This is the reason why screening data is not available in the HPD Builder.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: Floorscore

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: November 4, 2016	EXPIRY DATE*: November 4, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: November 4, 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.

CALCIUM CARBONATE %: 54.5100 - 54.5100 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

CALCIUM CARBONATE

ID: 471-34-1

%: 100.0000 - 100.0000 GS: BM-3 RC: None NANO: NO ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYVINYL CHLORIDE (PVC) %: 33.5700 - 33.5700 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: Main Content

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

CHLORO METHOXY FAT DIETHYLENE GLYCOL DINITRATE %: 5.4500 - 5.4500 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

BIS(2-ETHYLHEXYL) TEREPHTHALATE %: 4.1400 - 4.1400 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

%: 100.0000 - 100.0000 GS: BM-3 RC: None NANO: NO ROLE: Plasticizer

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:**EPOXIDIZED SOYBEAN OIL** %: 1.1300 - 1.1300 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

EPOXIDIZED SOYBEAN OIL

ID: 8013-07-8

%: 100.0000 - 100.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Filler

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:**CALCIUM STEARATE** %: 0.5100 - 0.5100 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

CALCIUM STEARATE

ID: 1592-23-0

%: 100.0000 - 100.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Stabiliser

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:**ZINC STEARATE** %: 0.2000 - 0.2000 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

ZINC STEARATE

ID: 557-05-1

%: 100.0000 - 100.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Stabiliser

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CARBON BLACK%: 0.1600 - 0.1600 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

CARBON BLACK

ID: 1333-86-4

%: 100.0000 - 100.0000 GS: BM-1 RC: None NANO: NO ROLE: Pigment

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

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen (form-specific or based on limited exposure pathways)
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:

GLASS/MINERAL FIBER%: 0.1000 - 0.1000 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

GLASS / MINERAL FIBER

ID: 65997-17-3

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: Glass Fiber

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

CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer

SUBSTANCE NOTES:

1,6-HEXANEDIOL DIACRYLATE%: 0.0500 - 0.0500 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

1,6-HEXANEDIOL DIACRYLATE

ID: 13048-33-4

%: 100.0000 - 100.0000 GS: LT-P1 RC: None NANO: NO ROLE: Print film opacity

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

EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
----------------	----------------	--------------------------

SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

DIPROPYLENE GLYCOL DIACRYLATE %: 0.0300 - 0.0300 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

DIPROPYLENE GLYCOL DIACRYLATE

ID: 57472-68-1

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: PU coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

2-(METHACRYLOYLOXY)ETHANOL %: 0.0300 - 0.0300 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm Residuals Considered: No

Material Notes:

2-(METHACRYLOYLOXY)ETHANOL

ID: 868-77-9

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: PU coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

TRIMETHYLOLPROPANE TRIACRYLATE %: 0.0300 - 0.0300 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

TRIMETHYLOLPROPANE TRIACRYLATE

ID: 15625-89-5

%: 100.0000 - 100.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: PU coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION

EU - R-phrases

R36 - Irritating to eyes

SKIN IRRITATION

EU - R-phrases

R38 - Irritating to skin

SKIN SENSITIZE

EU - R-phrases

R43 - May cause sensitization by skin contact

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rr) - irritant-induced

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

SKIN IRRITATION

EU - GHS (H-Statements)

H317 - May cause an allergic skin reaction

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

TRIPROPYLENE GLYCOL DIACRYLATE %: 0.0300 - 0.0300 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

TRIPROPYLENE GLYCOL DIACRYLATE

ID: 42978-66-5

%: 100.0000 - 100.0000

GS: LT-P1

RC: None

NANO: NO

ROLE: PU coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION

EU - R-phrases

R36 - Irritating to eyes

SKIN IRRITATION

EU - R-phrases

R38 - Irritating to skin

SKIN SENSITIZE

EU - R-phrases

R43 - May cause sensitization by skin contact

ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)-

%: 0.0200 - 0.0200 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

POLY(OXY(METHYL-1,2-ETHANEDIYL)), ALPHA,ALPHA'-(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(OMEGA-((1-OXO-2-PROPEN-1-YL)OXY)-

ID: 84170-74-1

%: 100.0000 - 100.0000 GS: LT-P1 RC: None NANO: NO ROLE: PU coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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

SUBSTANCE NOTES:

1-PROPANONE, 2-HYDROXY, 2-METHYL, 1-PHENYL

%: 0.0200 - 0.0200 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

1-PROPANONE, 2-HYDROXY-2-METHYL-1-PHENYL-

ID: 7473-98-5

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: PU coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

%: 0.0200 - 0.0200 HPD URL: <http://www.novalis-intl.com/>

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

%: 100.0000 - 100.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: PU coating
------------------------	-----------	----------	----------	------------------

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

REPRODUCTIVE	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility
--------------	-------------------------	---

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

SUBSTANCE 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.

VOC EMISSIONS

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: Zhenjiang, Jiangsu Province, China

CERTIFICATE URL: https://www.scsglobalservices.com/certified-green-products-guide?pd_pid=33963

CERTIFICATION AND COMPLIANCE NOTES: Floorscore is the most recognized indoor air quality (IAQ) standard for hard surface flooring materials, adhesives and underlayments. Formaldehyde free Building-type scenario: schools, offices, public spaces, hospitals

Floorscore

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2016-06-01	2017-04-30	SCS Global

**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.

**Section 5: General Notes**



MANUFACTURER INFORMATION

MANUFACTURER: Novalis

ADDRESS: No 63 Guangyuan Rd, Dantu Industrial Zone Zhenjiang,
Jiangsu 212131, China
Zhenjiang, Jiangsu 212131
??

WEBSITE: <http://www.novalis-intl.com/>

CONTACT NAME: Jane Chen

TITLE: Product Assistant

PHONE: 18951286965

EMAIL: jane.chen@novalis.cn

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)

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.