

CLASSIFICATION: 06 53 13.00

PRODUCT DESCRIPTION: Novalis' patented NovaClic mechanically locking system allows Novalis NovaClic LVT to be installed without any adhesive, thus eliminating the need for additional installation material as well as removing the health and safety worry associated using flooring adhesive. At the same time, this system allows simple removal of used LVT flooring so they can be easily reclaimed back and recycle into new Novalis LVT without the need to remove installation residues such as glue and concrete.

Section 1: Summary

Basic Method / Product Threshold

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

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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

NOVALIS NOVACLIC LVT | CALCIUM CARBONATE BM-3 POLYVINYL CHLORIDE (PVC) LT-P1 | RES OCTADECANOIC ACID Not Screened BIS(2-ETHYLHEXYL) TEREPHTHALATE BM-3 EPOXIDIZED SOYBEAN OIL LT-UNK CALCIUM STEARATE LT-UNK ZINC STEARATE LT-UNK CARBON BLACK LT-1 | CAN EPOXY RESIN Not Screened 1,6-HEXANEDIOL DIACRYLATE LT-P1 | SKI | EYE | MUL DIPROPYLENE GLYCOL DIACRYLATE LT-UNK 2-(METHACRYLOYLOXY)ETHANOL LT-UNK | SKI | EYE TRIPROPYLENE GLYCOL DIACRYLATE LT-P1 | AQU | SKI | EYE | MUL TRIMETHYLOLPROPANE TRIACRYLATE LT-UNK | RES | CAN | SKI | EYE 1-PROPANONE, 2-HYDROXY-2-METHYL-1-PHENYL- LT-UNK DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE LT-P1 | REP | MUL 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]

Number of Greenscreen BM-4/BM3 contents ... 2

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

As per the substances' CAS numbers, Octadecanoic 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 See Section 3 for additional listings.

VOC emissions: RFCI FloorScore

VOC emissions: UL/GreenGuard Gold Certified

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-11-13

PUBLISHED DATE: 2018-11-13

EXPIRY DATE: 2021-11-13



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

NOVALIS NOVACLIC LVT

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: No Residuals and Impurities are considered because they do not affect the performance of the product

OTHER PRODUCT NOTES: None

CALCIUM CARBONATE

ID: 471-34-1

%: 58.1100 - 58.1100	GS: BM-3	RC: None	NANO: No	ROLE: main content
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: main content

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

%: 29.9000 - 29.9000	GS: LT-P1	RC: None	NANO: No	ROLE: main content
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: main content

OCTADECANOIC ACID

ID: Not Registered

%: 7.4600 - 7.4600	GS: Not Screened	RC: None	NANO: No	ROLE: Plasticizer
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Plasticizer

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

%: 2.1200 - 2.1200	GS: BM-3	RC: None	NANO: No	ROLE: plasticizer
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: plasticizer

EPOXIDIZED SOYBEAN OIL

ID: 8013-07-8

%: 1.2100 - 1.2100	GS: LT-UNK	RC: None	NANO: No	ROLE: filler
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: filler

CALCIUM STEARATE

ID: 1592-23-0

%: 0.4600 - 0.4600	GS: LT-UNK	RC: None	NANO: No	ROLE: stabilizer
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: stabilizer

ZINC STEARATE

ID: 557-05-1

%: 0.2500 - 0.2500	GS: LT-UNK	RC: None	NANO: No	ROLE: stabilizer
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: stabilizer

CARBON BLACK

ID: 1333-86-4

%: 0.1600 - 0.1600	GS: LT-1	RC: None	NANO: No	ROLE: pigment
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

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: pigment

EPOXY RESIN

ID: **Not Registered**

#: **0.1000 - 0.1000** GS: **Not Screened** RC: **None** NANO: **No** ROLE: **PU coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: PU coating

1,6-HEXANEDIOL DIACRYLATE

ID: **13048-33-4**

#: **0.0500 - 0.0500** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **PU coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: PU coating

DIPROPYLENE GLYCOL DIACRYLATE

ID: **57472-68-1**

#: **0.0300 - 0.0300** 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: PU coating

2-(METHACRYLOYLOXY)ETHANOL

ID: **868-77-9**

#: **0.0300 - 0.0300** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **PU coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: PU coating

TRIPROPYLENE GLYCOL DIACRYLATE

ID: 42978-66-5

%: 0.0300 - 0.0300	GS: LT-P1	RC: None	NANO: No	ROLE: PU coating
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
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 SENSITIZE	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: PU coating

TRIMETHYLOLPROPANE TRIACRYLATE

ID: 15625-89-5

%: 0.0300 - 0.0300	GS: LT-UNK	RC: None	NANO: No	ROLE: PU coating
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
CANCER	IARC	Group 2B - Possibly carcinogenic to humans		
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		
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization		

SUBSTANCE NOTES: PU coating

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

ID: 7473-98-5

%: 0.0200 - 0.0200	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: PU coating

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

ID: 75980-60-8

#: 0.0200 - 0.0200 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: PU coating

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

#: 0.0200 - 0.0200 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: PU coating

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

RFCI FloorScore

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-05-01**

EXPIRY DATE: **2019-04-30**

CERTIFIER OR LAB: **SCS Global Services**

APPLICABLE FACILITIES: **school classroom and private office parameters**

CERTIFICATE URL:

<https://www.scsglobalservices.com>

CERTIFICATION AND COMPLIANCE NOTES:

VOC EMISSIONS

UL/GreenGuard Gold Certified

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2017-11-03**

EXPIRY DATE: **2019-11-03**

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **school office public place and hospitals**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

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

Novalis' patented NovaClic mechanically locking system allows Novalis NovaClic LVT to be installed without any adhesive, thus eliminating the need for additional installation material as well as removing the health and safety worry associated using flooring adhesive. At the same time, this system allows simple removal of used LVT flooring so they can be easily reclaimed back and recycle into new Novalis LVT without the need to remove installation residues such as glue and concrete.



MANUFACTURER INFORMATION

MANUFACTURER: **Novalis**

ADDRESS: **No. 63 Guangyuan Road ,Dantu Industrial Zone**

Zhenjiang Jiang Su 212131, China

WEBSITE: **http://www.novalis-intl.com**

CONTACT NAME: **Jane Chen**

TITLE: **Product**

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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

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.