

HPD UNIQUE IDENTIFIER: 11589464066048

CLASSIFICATION: 09 60 00 Flooring

PRODUCT DESCRIPTION: Vetotop EC498 is a two-component high-performance solvent-free epoxy coating system that adheres perfectly to concrete. Once cured, the product has excellent abrasion and chemical resistance. Vetotop EC498 provides an attractive, hard-wearing, and easily cleanable floor finish. Its use on floors will enhance the lighting in the environment due to the product's reflective properties. / Vetotop EC698 is a two-component high-performance solvent-free epoxy coating system designed for the protection of concrete floors. Once cured, the product has excellent abrasion and good chemical resistance. Vetotop EC698 provides an attractive, hard-wearing, and easily cleanable floor finish. / Vetotop EL499 is a multi-component high-performance self-smoothing epoxy flooring system that flows in a honey-like manner to self-smoothen to a perfect level. Once cured, the product has excellent abrasion and chemical resistance. Vetotop EC499 provides an attractive, hard-wearing, and easily cleanable floor finish. Its use on floors will enhance the lighting in the environment due to the product's reflective properties. / Vetotop EL699 is a multi-component high-performance self-smoothing epoxy flooring system that flows in a light oil-like manner to self-smoothen to a perfect level. Once cured, the product has excellent abrasion and chemical resistance. Vetotop EL699 provides an attractive, hard-wearing, and easily cleanable floor finish. Its use on floors will enhance the lighting in the environment due to the product's reflective properties.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	For all contents above the threshold, the manufacturer has:
☒ Nested Materials Method	☐ 100 ppm	☐ Completed	Characterized ☒ Yes ☐ No
☐ Basic Method	☒ 1,000 ppm	☒ Not Completed	<i>Provided weight and role.</i>
Threshold Disclosed Per		Explanation(s) provided for Residuals/Impurities?	Screened ☒ Yes ☐ No
☐ Material	☐ Per GHS SDS		<i>Provided screening results using HPDC-approved methods.</i>
☒ Product	☐ Other	☒ Yes ☐ No	Identified ☐ Yes ☒ No
			<i>Provided name and CAS RN or other identifier.</i>

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.

NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

VETOTOP EC498, VETOTOP EC698, VETOTOP EL499 & VETOTOP EL699 [QUARTZ BM-1* | CAN | MAM | GEN BISPHENOL A EPICHLOROHYDRIN POLYMER LT-P1 | MUL | SKI | EYE | AQU TITANIUM DIOXIDE LT-1* | CAN | END | MAM]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.3 and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD is consistent with the LEED v4.1 MR Credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1).

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 2 - 15 Regulatory (g/l): 450

Does the product contain exempt VOCs: No

Are colorants available that do not increase the VOC content of the base paint when tinted: N/A

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) -

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

- ☐ Yes
- ☒ No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-03-23

PUBLISHED DATE: 2023-05-30

EXPIRY DATE: 2026-03-23

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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

VETOTOP EC498, VETOTOP EC698, VETOTOP EL499 & VETOTOP EL699 %: 100.0000

PRODUCT THRESHOLD: 1000 ppm	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: No	MATERIAL TYPE: Other: Flooring system
RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are considered		
OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.		

QUARTZ ID: 14808-60-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-03-23 0:59:56		
%: 50.0000 - 65.0000	GreenScreen: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Filler

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)**
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man**
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources**
CAN	IARC	Group 1 - Agent is Carcinogenic to humans**
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen**
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]**
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]**
CAN	GHS - New Zealand	Carcinogenicity category 1**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]**
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]**
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Silica sand (quartz) is a naturally washed sand that comes from nature without any further processing, only segregated to the desired sizes by sieving units and it does not contain inhalable particles (minimum), usually, the contact with humans mainly when it is in its wet form where no dust at all, in fact, it is safe.

**Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

BISPHENOL A EPICHLOROHYDRIN POLYMER

ID: 25068-38-6

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE:	2023-03-23 0:58:34
%: 30.0000 - 40.0000	GreenScreen: LT-P1	RC: None	NANO: No
SUBSTANCE ROLE: Structure component			

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements) Annex 6 Table 3-1	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
EYE	GHS - New Zealand	Eye irritation category 2
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	GHS - Australia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 2
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Australia	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Core Restrictions
RESTRICTED LIST	International Living Future Institute (ILFI)	Living Building Challenge 4.0 - Red List of Materials & Chemicals - Effective April 1, 2022 Red List substances to avoid in Living Building Challenge V4.0 projects

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE:	2023-03-23 0:59:08
%: 5.0000 - 10.0000	GreenScreen: LT-1	RC: None	NANO: No
SUBSTANCE ROLE: Structure component			

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources**
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value**
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor**
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels**
CAN	EU - GHS (H-Statements) Annex 6 Table 3-1	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
CAN	GHS - Japan	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
CAN	EU - Annex VI CMRs	Carcinogen Category 2 - Suspected human Carcinogen**
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL) Colorants - Green Circle (Verified Low Concern)

SUBSTANCE NOTES: **Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

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		CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Third Party	ISSUE DATE: 2020-12-07	CERTIFIER OR LAB: Wimpey
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE:	Laboratories LLC
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: This certification applies to Vetotop EC498. TVOC - <0.01 mg/m3 Individual VOC - <2 ug/m3		
VOC EMISSIONS		CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Third Party	ISSUE DATE: 2021-03-16	CERTIFIER OR LAB: Al Jazzar
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE:	Omar Jazzar Consulting Engineers
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: This certification applies to Vetotop EC698. Volatile Organic Compound (VOC) - 4.2 gm/litter		
VOC EMISSIONS		CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Third Party	ISSUE DATE: 2020-08-16	CERTIFIER OR LAB: Al Jazzar
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE:	Omar Jazzar Consulting Engineers
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: This certification applies to Vetotop EL499. Volatile Organic Compound (VOC) - 16 gm/litter		
VOC EMISSIONS		CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Third Party	ISSUE DATE: 2020-08-30	CERTIFIER OR LAB: Al Jazzar
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE:	Omar Jazzar Consulting Engineers
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: This certification applies to Vetotop EL699. Volatile Organic Compound (VOC) - 6.2 gm/litter		
VOC CONTENT		ANSI/BIFMA M7.1 Standard Test Method for Determining VOC Emissions - X7.1-2011 FES Test method
CERTIFYING PARTY: Third Party	ISSUE DATE: 2021-03-16	CERTIFIER OR LAB: Al Jazzar
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE:	Consulting Engineers Co
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: Vetotop EC698 - VOC Content 4.2 g/l (ASTM D2369 and ASTM D3960) Vetotop EL499 - VOC Content 16 g/l (ASTM D2369 and ASTM D3960) Vetotop EL699 - VOC Content 6.2 g/l (ASTM D2369 and ASTM D3960)		
FORMALDEHYDE CONTENT		CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario
CERTIFYING PARTY: Third Party	ISSUE DATE: 2020-12-07	CERTIFIER OR LAB: Wimpey
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE:	Laboratories LLC
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: This certification applies to Vetotop EC498. Formaldehyde - <2 ug/m3 Total Aldehydes - <2 ug/m3		
LCA		Environmental Product Declaration (EPD) by the Green Standard
CERTIFYING PARTY: Third Party	ISSUE DATE: 2023-05-30	CERTIFIER OR LAB: Environmental
APPLICABLE FACILITIES: Saudi Arabia	EXPIRY DATE: 2028-05-30	Footprint Institute
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES: Environmental Product Declaration has been developed by GCAS Quality Certifications and verified by a third-party verifier in Environmental Footprint Institute, Spain.		

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

The original sealed kit of Vetotop EC498 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place below 35°C. Vetotop EC498 should not contact the skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, hardeners, and solvents. Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, use suitable respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - Do not induce vomiting.

The original sealed kit of Vetotop EC698 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place below 35°C. Vetotop EC698 should not contact the skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, hardeners, and solvents, and wear suitable protective clothing, gloves, and eye protection. If working in confined areas, use suitable respiratory protective equipment. The use of barrier cream provides additional skin protection. In case of skin contact, rinse with plenty of clean water, then cleans with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

The original sealed kit of Vetotop EL499 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place below 35°C. Vetotop EL499 is non flammable. Refer to the product material safety data sheet for information.

The original sealed kit of Vetotop EL699 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place below 35°C. Vetotop EL699 is non flammable. Refer to the product material safety data sheet for information.

MANUFACTURER INFORMATION

MANUFACTURER: Saudi Vetoni Co.Ltd
ADDRESS: P.O. Box 52235
 Riyadh - 11563, Saudi Arabia
WEBSITE: www.saveto.com

CONTACT NAME: Mr. Majid R Al Momani
TITLE: Research & Development Manager
PHONE: +966 11 265 3334
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The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible 1 (Possible Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS No GreenScreen.
BM-U Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

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

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.