



SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

VICOSTONE® Quartz Surfaces

Hoalac Hi-tech Park, Hanoi, Viet Nam

For the following product(s):

Countertops:

Vicostone Quartz Surfaces

HPD Screening Date: 6/8/2018

Verification #: qGE-4634



The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

Verified Health Product Declaration

This validation conforms to the Health Product Declaration Open Standard, Version 2.1 (May 1, 2017).

Products have a complete, basic method, product threshold HPD. The content inventory of the HPD verified product has been characterized and screened for health hazard warnings using a disclosure of 1000 ppm (0.1%).

Registration # SCS-HPD-04995

Valid from: July 10, 2018 to June 8, 2021



Stanley Mathuram, PE, Vice President
SCS Global Services
2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

CLASSIFICATION: 12 36 61.19 - Quartz Agglomerate Countertops

PRODUCT DESCRIPTION: VICOSTONE quartz-based engineered stones are produced from up to 93% pure natural quartz aggregates which are adhered with polymer resin and colored powder. VICOSTONE compound stones have a hardness and flexural strength imparted by Bretonstone's® renowned patented machinery and technology.

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

VICOSTONE QUARTZ SURFACE [SILICA, CHRISTOBALITE (SILICA, CHRISTOBALITE) LT-1 | CAN POLYESTER (POLYESTER) NoGS STYRENE (STYRENE) BM-1 | RES | CAN | END | SKI | EYE | DEL | MAM | MUL | REP RUTILE, ANTIMONY CHROMIUM BUFF (RUTILE, ANTIMONY CHROMIUM BUFF) LT-UNK IRON OXIDE (IRON OXIDE) LT-UNK | CAN FERRIC OXIDE YELLOW (FERRIC OXIDE YELLOW) LT-UNK CHROMIUM (III) OXIDE (CHROMIUM (III) OXIDE) LT-P1 | SKI FERRIC OXIDE (FERRIC OXIDE) BM-2 | CAN TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END MICA (MICA) LT-UNK 3-TRIMETHOXSILYLPROPYL METHACRYLATE (3-TRIMETHOXSILYLPROPYL METHACRYLATE) LT-UNK BENZENECARBOPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER (BENZENECARBOPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER) LT-P1 | MUL UNKNOWN NoGS]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Vicostone worked with a HPD Third Party Preparer to obtain all required chemical formulation information to the disclosure level of 1,000 ppm (0.1%).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: UL/GreenGuard Gold Certified
Other: Seal of the Kosher Trust
Multi-attribute: ANSI/NSF 51-2012 Food equipment materials

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER: SCS Global Services
VERIFICATION #: qGE-4634

SCREENING DATE: 2018-06-08
PUBLISHED DATE: 2018-07-11
EXPIRY DATE: 2021-06-08



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

VICOSTONE QUARTZ SURFACE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Vicostone worked with a Third Party HPD Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD.

OTHER PRODUCT NOTES:

SILICA, CHRISTOBALITE (SILICA, CHRISTOBALITE)

ID: 14464-46-1

#: 93.0000 - 93.0000 GS: LT-1 RC: None NANO: No ROLE: Structure

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 1 - Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

CANCER

New Zealand - GHS

6.7A - Known or presumed human carcinogens

CANCER

Japan - GHS

Carcinogenicity - Category 1A

CANCER

Australia - GHS

H350 - May cause cancer

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

SUBSTANCE NOTES: The silica used is sourced from five possible suppliers whose products have variable amounts of cristobalite (CAS #14464-46-1) and quartz (CAS #14808-60-7). As these two chemicals have the same hazards (inhalation carcinogenicity and persistence) and are both LT-1 chemicals, they were grouped together into this single entry. The carcinogenicity hazard is relevant only for the inhalation exposure route.

POLYESTER (POLYESTER)

ID: 113669-95-7

#: 0.0000 - 6.8200 GS: NoGS RC: None NANO: No ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

STYRENE (STYRENE)

ID: 100-42-5

#: 0.0000 - 4.1800

GS: BM-1

RC: None

NANO: No

ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

CANCER

CA EPA - Prop 65

Carcinogen

ENDOCRINE

EU - Priority Endocrine Disruptors

Category 1 - In vivo evidence of Endocrine Disruption Activity

CANCER

US NIH - Report on Carcinogens

Reasonably Anticipated to be Human Carcinogen

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

DEVELOPMENTAL

EU - GHS (H-Statements)

H361d - Suspected of damaging the unborn child

ORGAN TOXICANT

EU - GHS (H-Statements)

H372 - Causes damage to organs through prolonged or repeated exposure

ENDOCRINE

ChemSec - SIN List

Endocrine Disruption

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

CANCER

MAK

Carcinogen Group 5 - Genotoxic carcinogen with very slight risk under MAK/BAT levels

REPRODUCTIVE

Japan - GHS

Toxic to reproduction - Category 1B

CANCER

IARC

Group 2a - Agent is probably Carcinogenic to humans

SUBSTANCE NOTES: The GreenScreen Benchmark® assessment score of BM-1 was provided through the HPD 2.1 Builder Tool.

RUTILE, ANTIMONY CHROMIUM BUFF (RUTILE, ANTIMONY CHROMIUM BUFF)

ID: 68186-90-3

#: 0.0000 - 1.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Colorant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

IRON OXIDE (IRON OXIDE)

ID: 1317-61-9

#: 0.0000 - 0.9910

GS: LT-UNK

RC: None

NANO: No

ROLE: Colorant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

FERRIC OXIDE YELLOW (FERRIC OXIDE YELLOW)

ID: 51274-00-1

#: 0.0000 - 0.9910

GS: LT-UNK

RC: None

NANO: No

ROLE: Colorant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CHROMIUM (III) OXIDE (CHROMIUM (III) OXIDE)

ID: 1308-38-9

#: 0.0000 - 0.9900

GS: LT-P1

RC: None

NANO: No

ROLE: Colorant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES:

FERRIC OXIDE (FERRIC OXIDE)

ID: 1309-37-1

#: 0.0000 - 0.9890

GS: BM-2

RC: None

NANO: No

ROLE: Colorant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: The GreenScreen Benchmark® assessment score of BM-2 was provided through the HPD 2.1 Builder Tool.

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

#: 0.0000 - 0.8000

GS: LT-1

RC: None

NANO: No

ROLE: Colorant

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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: The carcinogenicity hazard is relevant only for the inhalation exposure route.

MICA (MICA)

ID: 12001-26-2

#: **0.0000 - 0.6700** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Colorant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

3-TRIMETHOXYSILYLPROPYL METHACRYLATE (3-TRIMETHOXYSILYLPROPYL METHACRYLATE)

ID: 2530-85-0

#: **0.0000 - 0.3000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Coupling Agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

BENZENECARBOPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER (BENZENECARBOPEROXOIC ACID, 1,1-DIMETHYLETHYL ESTER)

ID: 614-45-9

#: **0.0000 - 0.1000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Catalyzer**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES:

UNKNOWN

ID: Unknown

#: **0.0000 - 1.0000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Colorant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: **SUBSTANCE NOTES:** Incomplete disclosure was available for this colorant. The MSDS indicates that it contains unknown concentrations of mica group minerals (CAS #12001-26-2) and metal oxides. As such, the hazard profile for this colorant will be similar to mica and metal oxides, i.e. environmental persistence and potential mechanical irritation to the skin and eyes.

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

UL/GreenGuard Gold Certified

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **None specified.**

CERTIFICATE URL:

<https://spot.ulprospector.com/en/na/BuiltEnvironment/search?k=vicostone&st=1>

ISSUE DATE:

2009-09-21

EXPIRY DATE:

2018-09-21

CERTIFIER OR LAB: **UL**

Environment

CERTIFICATION AND COMPLIANCE NOTES: Numerous Vicostone quartz products have been certified as UL GreenGuard Gold per UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings. The products were tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2. Please see the URL for a complete list of certified products.

OTHER

Seal of the Kosher Trust

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **A&A Green Phoenix Group
Joint Stock Company (Phenikaa Group) No.
167, Hoang Ngan, Trung Hoa Ward., Cau Giay
Dist., Hanoi, VIETNAM**

CERTIFICATE URL: <http://www.sealk.org/>

ISSUE DATE: **2017-
06-21**

EXPIRY DATE:

CERTIFIER OR LAB: **Seal of the
Kosher Trust**

CERTIFICATION AND COMPLIANCE NOTES: Vicostone Quartz Surfaces are suitable for use with kosher food and will remain suitable provided that the countertop is used exclusively with kosher food for the lifetime of the product.

MULTI-ATTRIBUTE

ANSI/NSF 51-2012 Food equipment materials

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **Hanoi, Vietnam**

CERTIFICATE URL:

[http://info.nsf.org/Certified/Food/Listings.asp?
Company=C0294967&Standard=051](http://info.nsf.org/Certified/Food/Listings.asp?Company=C0294967&Standard=051)

ISSUE DATE: **2013-
05-24**

EXPIRY DATE:

CERTIFIER OR LAB: **NSF**

CERTIFICATION AND COMPLIANCE NOTES: Also [http://info.nsf.org/Certified/Food/Listings.asp?
Company=C0024831&Standard=051](http://info.nsf.org/Certified/Food/Listings.asp?Company=C0024831&Standard=051) Certificate numbers C0024831-02 and C0024832-02.

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

Vicostone worked with a HPD Third Party Preparer to obtain all required chemical formulation information to the disclosure level of 1,000 ppm (0.1%). Vicostone also worked with a Third Party HPD Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD.



MANUFACTURER INFORMATION

MANUFACTURER: **A&A GREEN PHOENIX GROUP JOINT STOCK COMPANY**

ADDRESS: **167 Hoang Ngan Street, Trung Hoa Ward
Cau Giay District
Ha Noi Ha Noi 100000, Viet Nam**

WEBSITE: **http://www.vicostone.com**

CONTACT NAME: **Mr. Pham Tri Dzung**

TITLE: **Deputy General Director**

PHONE: **(84) 24 33 685 826**

EMAIL: **info@vicostone.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

