

CLASSIFICATION: 06 61 13 Simulated Stone Fabrications, 09 77 00 Special Wall Surfacing, 12 36 00 Countertops,
PRODUCT DESCRIPTION: Viatera®, manufactured by LG Hausys America, Inc., is composed of compacted natural quartz material, pigments, and colorants, in a resinous binder. Viatera® is produced in 2 cm and in 3 cm thicknesses in slabs or varying dimensions and is typically more heat-resistant and scratch-resistant than solid surface material. Viatera® is Certified "Greenguard" and "Greenguard Gold" [classroom] for Low Chemical Emissions [VOCs] by UL Environment standard UL2818. Viatera® is also Certified for "All food contact types" in compliance with NSF/ANSI 51, is rated "Class 'A'" using the generally accepted ASTM E84 flammability test.

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

VIATERA QUARTZ SURFACING BY LG HAUSYS AMERICA, INC. [QUARTZ
LT-1 | CAN QUARTZ LT-1 | CAN POLYESTER NoGS UNDISCLOSED LT-
UNK UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-1 | RES | CAN | MUL |
GEN | REP TITANIUM DIOXIDE LT-1 | CAN | END IRON OXIDE LT-UNK |
CAN RUTILE, ANTIMONY CHROMIUM BUFF LT-UNK C.I. PIGMENT BLUE
28 LT-1 | RES | CAN | GEN FERRIC OXIDE BM-2 | CAN]

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

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

INVENTORY AND SCREENING NOTES:

Because Viatera® is an agglomeration of quartz particle sizes and is available in a wide range of colors and "textured" looks, all substances are listed with minimum and maximum percentage quantities. As manufactured, Viatera® is not toxic and non-allergenic to humans

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: UL/GreenGuard Certified
VOC emissions: UL/GreenGuard Gold Certified
LCA: Environmental Product Declaration (EPD) by NSF

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-11-06

PUBLISHED DATE: 2018-11-08

EXPIRY DATE: 2021-11-06



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

VIATERA QUARTZ SURFACING BY LG HAUSYS AMERICA, INC.

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Viatera® consists of natural quartz particles and quartz powder blended with various colorants and captured within a polymer (polyester) resin. Strict quality assurance procedures at raw material intake, together with sourcing from reliable supply chain partners, and continuous quality control, assure that any residuals or impurities are within the limits described in the Safety Data Sheet (SDS).

OTHER PRODUCT NOTES: Viatera®, as manufactured and as used in the built environment, is a Low VOC, non-toxic, and non-allergenic surfacing material. As with any such material (engineered stone, granite, marble, etc.) the fabrication steps of cutting and polishing can release "respirable [breathable] silica", a known carcinogen. OSHA-compliant dust control such as wet-cutting and dust collection must be followed. This only applies to cutting, polishing, operations. These are primarily performed in a fabrication shop environment but can occur in a limited scope during installation in the field. This also applies to California's Proposition 65 Warning as found on the manufactured product. See <https://www.p65warnings.ca.gov/>

QUARTZ

ID: 14808-60-7

#: 75.0000 - 90.0000 GS: LT-1 RC: None NANO: No ROLE: Natural Quartz Filler

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	H350i - May cause cancer by inhalation

SUBSTANCE NOTES: Natural quartz aggregate filler material

QUARTZ

ID: 14808-60-7

%: 15.0000 - 30.0000	GS: LT-1	RC: None	NANO: No	ROLE: Aggregate filler material.
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	H350i - May cause cancer by inhalation		

SUBSTANCE NOTES: Quartz powder is also called silica powder. This aggregate is generally in smaller particles than Silica Sand

POLYESTER

ID: **113669-95-7**

%: 5.0000 - 10.0000	GS: NoGS	RC: None	NANO: No	ROLE: Binder, to create a solid piece.
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Unsaturated polyester resin binder binds all materials together

UNDISCLOSED

%: 0.2000 - 0.3000	GS: LT-UNK	RC: None	NANO: No	ROLE: Adhesion promoter
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: Promotes adhesion between inorganic and organic compounds.

UNDISCLOSED

%: 0.1000 - 0.2000	GS: LT-P1	RC: None	NANO: No	ROLE: Polymerization initiator
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		

SUBSTANCE NOTES: Facilitates the polymerization process

UNDISCLOSED

#: **0.0100 - 0.0200** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Polymerization accelerant**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (G) - generally accepted

CANCER

US NIH - Report on Carcinogens

Reasonably Anticipated to be Human Carcinogen

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

CANCER

MAK

Carcinogen Group 2 - Considered to be carcinogenic for man

RESPIRATORY

MAK

Sensitizing Substance Sah - Danger of airway & skin sensitization

GENE MUTATION

MAK

Germ Cell Mutagen 3a

CANCER

Australia - GHS

H350i - May cause cancer by inhalation

REPRODUCTIVE

Australia - GHS

H360Fd - May damage fertility. Suspected of damaging the unborn child

SUBSTANCE NOTES: Facilitator of polymerization

TITANIUM DIOXIDE

ID: **13463-67-7**

#: **0.0000 - 3.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Colorant/pigment**

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

CANCER

MAK

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

SUBSTANCE NOTES: White pigment

IRON OXIDE

ID: **1317-61-9**

#: **0.0000 - 3.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Colorant/pigment**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Black pigment

RUTILE, ANTIMONY CHROMIUM BUFF

ID: 68186-90-3

#: 0.0000 - 3.0000 GS: LT-UNK RC: None NANO: No ROLE: Colorant/pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES: Yellow pigment

C.I. PIGMENT BLUE 28

ID: 1345-16-0

#: 0.0000 - 3.0000 GS: LT-1 RC: None NANO: No ROLE: Colorant/pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagens (G) - generally accepted
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Blue pigment

FERRIC OXIDE

ID: 1309-37-1

#: 0.0000 - 3.0000 GS: BM-2 RC: None NANO: No ROLE: Colorant/pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Red pigment

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 Certified

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2007-08-13**

EXPIRY DATE: **2019-08-13**

CERTIFIER OR LAB: **UI Environment**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

VOC EMISSIONS

UL/GreenGuard Gold Certified

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2007-08-13**

EXPIRY DATE: **2019-08-13**

CERTIFIER OR LAB: **UL Environment**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL: https://spot.ul.com/main-app/products/detail/5ad1e80355b0e82d946a0780?keywords=viatera&page_type=Products%20Catalog

CERTIFICATION AND COMPLIANCE NOTES: **GREENGUARD Gold Certified products must also comply with requirements of the State of California's Department of Public Health (CDPH)**

LCA

Environmental Product Declaration (EPD) by NSF

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2017-04-07**

EXPIRY DATE: **2022-04-07**

CERTIFIER OR LAB: **NSF International**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

<http://info.nsf.org/Certified/Sustain/ProdCert/EPD10096.pdf>

CERTIFICATION AND COMPLIANCE NOTES: **Environmental Product Declaration #: EPD10096**

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.

JOINT ADHESIVE (SEE NOTE IN "CONDITION WHEN RECOMMENDED...")

HPD URL: <https://s3.amazonaws.com/media.integra-adhesives.com/web/sds/2018/na/integraAdhesives-surfaceBonder-xi-sds-na-en-2018.pdf>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

LG Hausys does not manufacture a special adhesive product for this application. At the fabricator or field installer's discretion, a joint adhesive may be required to "seam" pieces of Viatera® together to create the desired design. See URL above - a typical product is Surface Bonder XI as manufactured by Integra Adhesives

Section 5: General Notes

Viatera® as manufactured by LG Hausys America, Inc., is composed of compacted natural quartz material, pigments, and colorants, in a polyester binder. Viatera® is produced in 2 cm and in 3 cm thicknesses and in slabs of varying dimensions. Typically more heat-resistant and scratch-resistant than solid surface material, Viatera® is Certified "Greenguard" and "Greenguard Gold" [classroom] for Low [VOC] Chemical Emissions by UL Environment standard UL 2818. Viatera® is also Certified for "All food contact types" in compliance with NSF/ANSI 51, is rated "Class 'A'" using the generally accepted ASTM E84 flammability test.



MANUFACTURER INFORMATION

MANUFACTURER: **LG Hausys America, Inc.**
 ADDRESS: **900 Circle 75 Parkway #1500**
Atlanta GA 30339, USA
 WEBSITE: <http://www.lgviaterausa.com/>

CONTACT NAME: **Richard Rudy**
 TITLE: **Technical Services Manager**
 PHONE: **678-535-4116**
 EMAIL: rrrudy@lghausys.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	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)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

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.