Name	**PENTALQUARTZ® SURFACES**		
Product ID	PENTALQUARTZ	Classification	12 36 61 – 19
Website	http://pentalquartz.com		
Manufacturer	VICOSTONE Join Stock Company	Contact Name	Mr. Pham Tri Dzung
Address	Hoa Lac Hi-Teck Park	Title	Deputy General Director
Address Line 2	Thach That	Phone	(84) 433 68 58 23
City, State, Code	Hanoi, 100000	Email	info@vicostone.com

Health Product DECLARATION 1.0

Description: PentalQuartz® surfaces are produced with Bretonstone® Patented machinery and technology and in accordance with the ISO 9001:2008 Quality Management System. Our Environmental Management System is certified with ISO 14001:2004.
This HPD covers all products under PentalQuartz® surfaces brand. BQ200 is given as example.

Release Date	1-May-2015	[x] Self-declared		
Expiry Date	30-Apr-2018	[ ] Second Party	Certifier	N/A
HPD URL		[ ] Third Party	Certificate #	

SUMMARY

The content of this product was assessed for health hazard warnings as required using

Residuals Disclosure

- [ ] Measured 100 ppm (ideal)
- [ ] Measured 1000 ppm
- [ ] Predicted by process chemistry
- [x] As per MSDS (1,000 & 10,000 ppm)
- [ ] Not disclosed
- [ ] Other

Full Disclosure of Intentional Ingredients	[ ] Yes	[X] No
Full Disclosure of Known Hazards	[ ] Yes	[X] No

Disclosure Notes

Hazards are disclosed according to the MSDS of the raw materials.During the manufacturing process, chemical reaction will change the form of the ingredients which make them no longer hazardous in the final products

Contents in Descending Order of Quantity (if the area below is full, refer to the following pages for additional listings)

Silicon Dioxide (SiO2), Unsaturated Polyester, Styrene, Gamma-Methacryloxypropyltrimethoxy Silane, Tert-butyl peroxybenzoate, Titanium Dioxide, Undisclosed (Inorganic Pigment Mixture).

Hazards

[ ] PBT *(Persistent and Bioaccumulative Toxic)*	[ ] Development	[ ] Neurotoxicity	[ ] Land toxicity
	[ ] Reproductive	[X] Mammal	[ ] Physical hazard
[X] Cancer	[X] Endocrine	[X] Skin or Eye	[ ] Global warming
[ ] Gene mutation	[X] Respiratory	[ ] Aquatic toxicity	[ ] Ozone depletion

Highest concern GreenScreen score - Benchmark 1

[X] Multiple
[X] Unknown

Total VOC Content

Material (g/l)	N/A	Does the product contain exempt VOCs?	[x] N/A	[ ] Yes	[ ] No
Regulatory (g/l)	N/A	Are VOC-free tints available?	[x] N/A	[ ] Yes	[ ] No

Content Notes

Certifications and Compliance (if the area below is full, refer to the following pages for additional listings)

VOC Emissions Greenguard - Indoor air quality, children &schools VOC Content N/A

ANSI STANDARD 051 – FOOD EQUIPMENT MATERIALS

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an "open standard" developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit hpdcollaborative.org.

CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level. Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.

GS: GreenScreen Benchmark; RC: Recycled Content, PC: Post Consumer, PI: Post Industrial (Pre-consumer), BO: Both post industrial and post consumer; Nano: comprised of nanoscale particles or nanotechnology.

Ingredient Name	number	% Weight	GS	RC	Nano	Role
Hazard A	Warning A					
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Notes						
Silicon Dioxide (SiO2)	14808-60-7	90-93%	BM1	No	No	Body
Cancer	IARC: Group 1: Agent is carcinogenic to humans - inhaled from occupational sources (also in NIOSH-C, MAK, NTP- RoC, Prop 65)					
Unsaturated Polyester	(mixture)	4-6%		No	No	Binder
None Found	No warnings found on HPD Priority Lists					
Styrene	100-42-5	2 – 3 %		No	No	Monomer- Crosslinker for Binder
Cancer	NTP-RoC: Reasonably Anticipated to be Human Carcinogen (also in IARC, MAK)					
Endocrine	EU ED: Category 1 - In vivo evidence of endocrine disruption activity (also in SIN, TEDX)					
Respiratory	AOEC: Asthmagen (ARs) - sensitizer-induced					
Mammal	EU R-Phrases: R20: Harmful by inhalation					
Skin or Eye	EU R-Phrases: R36: Irritating to eyes. (also in EU H- Statements)					
Skin or Eye	EU R-Phrases: R38: Irritating to skin. (also in EU H- Statements)					
Multiple	VwVwS: Class 2 Hazard to Waters					
Gamma-Methacryloxypropyltrimethoxy Silane	2530-85-0	0.1 – 0.5 %		No	No	Coupling Agents
Skin or Eye	Causes eye irritation					

Skin or Eye	May cause skin irritation
Respiratory	Harmful if inhaled. Causes respiratory tract irritation
Multiple	HMIS® rating: Health: 2 Fire: 2 Reactivity: 1 PPE: X

Tert-butyl peroxybenzoate	614-45-9	0.1 – 0.3 %		No	No	Crosslinking initiator
Multiple	VwVwS: Class 2 Hazard to Waters					

Titanium Dioxide	1317-80-2	0.0 – 1.5		No	No	Colorant
Cancer	NTP-RoC: Reasonably Anticipated to be Human Carcinogen (also in IARC, MAK)					

Undisclosed (Inorganic Pigment Mixture)	(mixture)	0.0 – 0.5 %		No	No	Colorant
Unknown	Not Disclosed					

CERTIFICATIONS AND COMPLIANCE

Certifying Party = ***Self declaration***: Manufacturer's self-declaration; ***Independent lab***: *Manufacturer's self-declaration using results from an independent lab and declaration of conformance.* ***Second Party:*** *Verification by trade association or other interested party;* ***Third Party:*** *Verification by independent certifier (ideal).*
Applicable facilities = *Manufacturing sites to which testing applies.*

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			Certification & Compliance Notes
VOC Emissions *(interior products only)*	Greenguard - Indoor air quality, children &schools			GreenGuard Environmental Institute
	Third Party	21-Sep-2009	21-Sep-2015	http://greenguard.org/en/index.aspx
	ALL			Testing is conducted annually and accreditation is renewed continuously
VOC Content *(wet applied only)*	N/A			
Recycled Content	Not Tested			
Other	ANSI STANDARD 051 – FOOD EQUIPMENT MATERIALS			National scienNce foundation (NSF)
		1-Jul-2009	31-Dec-2015	http://www.nsf.gov/
	ALL			Certify the product to be safe for food contact

ACCESSORY MATERIALS

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products. Note: This declaration is not intended to address hazards of the installation process.

	Required or recommended product	URL for companion Health Product Declaration
	Condition when required or recommended and/or other notes	
01	Vicostone Pre-mixed Sealant Epoxy with color matching	No HPD available
02	Vicostone Cleanser	No HPD available