created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 23068

CLASSIFICATION: 06 61 16 Solid Surfacing Fabrications

PRODUCT DESCRIPTION: Krion® Stone is a high quality solid surface developed by KRION SOLID SURFACE, S.A.U. This material is formed by an exclusive selection of high quality raw materials to generate a composite material with excellent performance. Its main component is a wellknown natural mineral with aluminium hydroxide (ATH) and polyester resin that is used as an organic binder. Inorganic natural pigments are used for the finishes that give aesthetics and durability to the finished material. Its exclusive composition and production process result in an excellent mechanical finish and aesthetics that allow it to be installed as a covering of indoor furniture and of vertical and horizontal surfaces, in commercial or residential environments and is available in sheet format. The exclusive combination of the aesthetic and technical features makes Krion® Stone the ideal solution in many and varied environments like: furniture, kitchens, bathrooms, coverings, and architecture.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- C Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- C 100 ppm
- ⊙ 1,000 ppm
- C Per GHS SDS
- Other

Residuals/Impurities

- Considered
- C Partially Considered
- O Not Considered

Explanation(s) provided for Residuals/Impurities?

Yes O No.

All Substances Above the Threshold Indicated Are:

Characterized

○ Yes Ex/SC ⊙ Yes ○ No

% weight and role provided for all substances.

Screened

○ Yes Ex/SC ⊙ Yes ○ No

All substances screened using Priority Hazard Lists with results disclosed.

Identified

○ Yes Ex/SC ○ Yes ⊙ No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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

KRION® STONE [ALUMINA TRIHYDRATE (PRIMARY CASRN IS 21645-51-2) BM-2 UNDISCLOSED NoGS 2-BUTANONE PEROXIDE LT-

P1 TITANIUM DIOXIDE LT-1 | CAN | END]

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:

This disclosure includes ingredients at the 1,000 ppm thereshold. Exact ingredient percentages are withheld as KRION SOLID SURFACE, S.A.U.'s Intellectual Property.

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: GreenGuard - Gold (previously Children & Schools) Other: REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals

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: 2020-11-19 PUBLISHED DATE: 2020-12-04** EXPIRY DATE: 2023-11-19

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

KRION® STONE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Krion® Stone is manufactured using mineral fillers and colorants encapsulated in resins and monomers. The polimerization of the polyesteric resin gives, as finished form sheets, nontoxic to humans. This results are verified by different certifications like Greenguard Gold or Reach. Impurities present in raw materials has been taken into account based on supplier SDS. KRION SOLID SURFACE, S.A.U. only uses high purity raw materials in order to ensure the high-quality of its products and obtain the exclusive properties of Krion® Stone.

OTHER PRODUCT NOTES: -

ALUMINA TRIHYDRATE (PRIMARY CASRN IS 21645-51-2)

ID: 8064-00-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-11-19

GS: **BM-2** %: 65.0000 - 75.0000 SUBSTANCE ROLE: Filler RC: None NANO: No

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No warnings found on HPD Priority Hazard Lists None found

SUBSTANCE NOTES: Inert, white and translucent powder that is also called aluminum hydroxide. This flame retardant is mixed with other components like resins, monomers and colorants in order to obtain Krion® Stone by a controlled polymerization system. This allows the total encapsulation of every component that Krion® Stone is made up of. As described, the final article, Krion® Stone, is nontoxic and nonallergic to humans.

UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-11-19

%: 25.0000 - 45.0000 GS: NoGS SUBSTANCE ROLE: Binder RC: None NANO: No

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Liquid pre-polymer typically used in the solid surface manufacturing process that usually contains reactive monomers like methyl methacrylate and/or styrene. Comercial unsaturated polyester resins are normally made with Ortophtalic or Isophtalic Acid, Neopentyl Glycol and a promoter.

2-BUTANONE PEROXIDE ID: 1338-23-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-11-19

%: 1.0000 - 4.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Initiator

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

No warnings found on HPD Priority Hazard Lists None found

SUBSTANCE NOTES: Unsaturated polyester resins, as well as other thermoset resins, polymerize through the initiators action. Commonly used, the methyl ethyl ketone peroxide (MEKP) triggers a molecular cross-linking process at room temperature obtaining a cured polyester.

TITANIUM DIOXIDE ID: 13463-67-7

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZ	ARD SCF	REENING DATE:	2020-11-19	
%: 0.0000 - 3.0000	GS: LT-1	RC:	None	NANO: No	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	WARNINGS		
CANCER	US CDC - Occupational Carcinogens		Occup	Occupational Carcinogen		
CANCER	CA EPA - Prop 65		Carcino route	Carcinogen - specific to chemical form or exposure route		
CANCER	IARC		•	2B - Possibly ca	arcinogenic to humans - inhaled	
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer				
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: Titanium dioxide is the most widely used pigment due to the extremely white and bright final color. These oxides are present in several minerals. Due to the high stability, the final color of Krion® Stone articles are stable and homogeneous. Inorganic pigments are essential for the aesthetic final Krion® Stone articles. In the final product, Krion® Stone is a polyester based polymer without hazards for humans.

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

GreenGuard - Gold (previously Children & Schools)

CERTIFYING PARTY: Third Party ISSUE DATE: 2020-10- EXPIRY DATE: 2024-CERTIFIER OR LAB: UL APPLICABLE FACILITIES: KRION SOLID SURFACE, 27 10-27 **ENVIRONMENT**

SAU

OTHER

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: This certificate, provided by UL - Environment, ensures that Krion® Stone has not any significant impact on indoor air pollution levels. Greenguard Certification meet some of the most rigorous criteria helping reduce indoor pollution. This certificate allows Krion® Stone to be used in Offices and Classrooms. Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2017 using a Classroom Environment with an air change of 0.82 hr and a loading of 94.60m².; and Wall finishes are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2017 using an Office Environment with an air change of 0.68 hr and a loading of 33.40 m². Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818. Section 7.1 and 7.2. Certificate number: 1001045638-3336955

REACH European Union Regulation (EC) 1907/2006 concerning the Registration,

Evaluation, Authorization and Restriction of Chemicals

CERTIFYING PARTY: Third Party

ISSUE DATE: 2020-10- EXPIRY DATE:

CERTIFIER OR LAB: SGS

APPLICABLE FACILITIES: KRION SOLID SURFACE,

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SAU **CERTIFICATE URL:**

CERTIFICATION AND COMPLIANCE NOTES: The REACH regulation is aimed at controlling chemical products that are manufactured or included as substances in mixes or end products in the EU. Its main goal is to safeguard human health and the environment. As part of its ongoing commitment to offer clients the best high-performance product on the market conspicuous for its quality while also caring for the environment, Krion® Stone has conducted tests to verify that none of the substances on the SVHC (Substances of Very High Concern) list, published by ECHA (European Chemicals Agency), are present in its formula. Krion® Stone complies with Article 7 "Registration & Notification of Substances Contained in Items" of the REACH Regulation and with the fact that it does not contain any SVCH in a concentration of over 0.1%. Certificate Number: The REACH regulation is aimed at controlling chemical products that are manufactured or included as substances in mixes or end products in the EU. Its main goal is to safeguard human health and the environment. As part of its ongoing commitment to offer clients the best high-performance product on the market conspicuous for its quality while also caring for the environment, KRION SOLID SURFACE, S.A.U. has conducted tests to verify that none of the substances on the SVHC (Substances of Very High Concern) list, published by ECHA (European Chemicals Agency), are present in its formula. Krion® Stone complies with Article 7 "Registration & Notification of Substances Contained in Items" of the REACH Regulation and with the fact that it does not contain any SVCH in a concentration of over 0.1%. Certificate Number: T32020291614SC



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.

KRION® ADHESIVE

HPD URL: https://hpdrepository.hpd-collaborative.org/

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

KRION® Adhesive can be used for creating inappreciable sections with Krion® Stone. These adhesives must always be used in a well ventilated place, stored in a cool place and use any neccessary protection (goggles, gloves, etc.). Before using it, read the "Use Instructions". KRION® Adhesive are formulated with the latest technology for the surfacing industry and offers excellent bonding. It has high resistance to water, scuffing and high temperatures and also possesses greater toughness and impact resistance than most other adhesives in the market. Fabricators will benefit from the environmental conformance properties of KRION® Adhesive as well. They are manufactured to the highest standard available and faces stringent quality control tests prior to sale and distribution, meeting the requirements for Low VOC emission limits (certified by Greenguard & Greenguard Gold) and having verified that comply with the european REACH Regulation, among others.



Section 5: General Notes

Other classification sections: 12 36 61.16 Solid Surfacing Countertops; 12 50 00 Furniture; 10 20 00 Interior Specialties; 12 34 19 Manufactured Solid Surface Casework. Krion® Stone is a solid surface material, manufactured in sheet shape. It is composed by inert mineral, unsaturated polyester resin and colorants creating a new generation of solid surface able to improve the main properties of other products. Krion Solid Surface, S.A.U. not only has been working directly on people's health, also has been working on environment. Certifications like ISO 14001 or ISO 50001 certifications for its facilities, demostrating its compromise with people and environment. In order to prevent workers who use Krion® Stone, Krion Solid Surface, S.A.U. strongly recommends consulting Krion® Stone MSDS to solve any question about safety and health. Krion Solid Surface, S.A.U. through Porcelanosa Grupo is Global Compact signatory entity from 2015. This Global Compact collects 10 Principles referred to Human Rights, Labor, Environment and Anti-corruption. This commitment is communicated to all the stakeholders and anually revised in order to inform about the progress in the implementation of the 10 Principles.

MANUFACTURER INFORMATION

MANUFACTURER: KRION SOLID SURFACE S.A.U.

ADDRESS: Ctra. Villarreal - Puebla de Arenoso (CV-20) Km. 1

Vila-real Castellón 12540, Spain WEBSITE: http://www.krion.com/en/ CONTACT NAME: Vicente Serrano Font

TITLE: Technical Manager
PHONE: +34 964 50 64 64
EMAIL: vserrano@krion.com

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

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

NEU Neurotoxicity

NF Not found on Priority Hazard Lists

OZO Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

REP Reproductive

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

UNK Unknown

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 (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping

to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

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.