

HPD UNIQUE IDENTIFIER: 1248052838400

CLASSIFICATION: 06 61 16 Solid Surfacing Fabrications

PRODUCT DESCRIPTION: Krion® Porcelanosa Solid Surface, Krion® hereinafter, is a pleasant and soft touch material similar to natural stone. It is made of two-thirds natural minerals (ATH – aluminium trihydrate) and a low percentage of high-resistance acrylic resins. This composition gives Krion® a number of exclusive features: it does not have any pores, it is hard-wearing, highly resistant and easy to repair, only requires minimum maintenance and is easy to clean. Krion® is a material that can be cut in a similar way to wood, allowing us to connect them and thermoform them to create curved sections. Furthermore, it could even be casted obtaining shapes (sinks, wash basins, etc.), making possible the cretion of unimaginable designs and projects that are impossible to achieve with other materials. Krion® has been rated according to Fire Standard "EN-13501-1" as a limited fire contributing material and low smoke emissions. It has been certified in Greenguard Gold by UL, A+, ANSI 51 Food Equipment Materials by NSF, REACH by SGS and BPA Free among others.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
<input type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Completed	Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No
<input checked="" type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	<input type="radio"/> Partially Completed	<i>Provided weight and role.</i>
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	<input type="radio"/> Not Completed	Screened <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
<input checked="" type="radio"/> Product		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes <input checked="" type="radio"/> 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.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE

KRION® PORCELANOSA SOLID SURFACE [ALUMINA TRIHYDRATE (ALUMINA TRIHYDRATE) BM-2 | SKI | EYE METHYL METHACRYLATE (METHYL METHACRYLATE) LT-P1 | END | SKI | PHY | EYE | MAM POLYMETHYL METHACRYLATE (PMMA) (POLYMETHYL METHACRYLATE (PMMA)) LT-P1 | RES N-BUTYL METHACRYLATE (N-BUTYL METHACRYLATE) LT-UNK | SKI | CAN | EYE | AQU 2-METHYLPROPYL2-METHYL-2-PROPENOATE (2-METHYLPROPYL2-METHYL-2-PROPENOATE) LT-UNK | SKI | EYE | AQU CARBON BLACK (CARBON BLACK) BM-1 | CAN | EYE | MAM IRON HYDROXIDE OXIDE YELLOW (IRON HYDROXIDE OXIDE YELLOW) LT-UNK TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END | MAM FERRIC OXIDE (FERRIC OXIDE) BM-1 | CAN | MAM | EYE | SKI IRON OXIDE BLACK (IRON OXIDE BLACK) LT-UNK BIS(2-ETHYLHEXYL) TEREPHTHALATE (BIS(2-ETHYLHEXYL) TEREPHTHALATE) BM-3dg UNDISCLOSED LT-P1 | SKI | MAM | EYE UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL | SKI | AQU UNDISCLOSED LT-UNK | PHY]

Number of Greenscreen BM-4/BM3 contents ... 1
 Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, BM-1, LT-1
 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This disclosure includes ingredients at the 1,000 ppm threshold. 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: UL/GreenGuard Gold Certified
 VOC emissions: ISO 16000-6 Determination of volatile organic compounds in indoor
 VOC content: ILFI Declare - LBC Compliant
 Recycled content: SCS Recycled Content Certification

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-07-12

PUBLISHED DATE: 2023-07-12

EXPIRY DATE: 2026-07-12

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

KRION® PORCELANOSA SOLID SURFACE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: Krion® is manufactured using mineral fillers and colorants encapsulated in resins and monomers. The polymerization of the acrylic resin gives as finished form; sheets, sinks or wash basins nontoxic to humans. This results are verified by different certifications like Greenguard Gold, NSF/ANSI 51 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®.

OTHER PRODUCT NOTES: Residuals from Krion® manufacturing can be reintroduced in production process. Material out of specifications, trimmings or wastes are milled and reused as decorative effects in new products. The result are four different series with recycling content certified by SCS Global Services. These series contains at minimum 6 %, 12 %, 20 % and 40 % in weight pre-consumer recycled materials, creating the Ecocycle™ process, meeting ISO 14021 Standard Type II environmental labelling requirements.

ALUMINA TRIHYDRATE (ALUMINA TRIHYDRATE)

ID: 21645-51-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-07-12 8:38:38

%: 55.0000 - 75.0000

GreenScreen: BM-2

RC: None

NANO: No

SUBSTANCE ROLE: Filler

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

SKI

GHS - New Zealand

Skin irritation category 2

EYE

GHS - New Zealand

Eye irritation 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

Biological and Environmentally Released Materials

RESTRICTED LIST

Cradle to Cradle Products Innovation Institute (C2CP II)

C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022

Children's Products

SUBSTANCE NOTES: Aluminium hydroxide, commonly known as alumina trihydrate (ATH), is the main compound of the Krion® formulation as a filler. ATH are natural compound with a high purity, nontoxic, high whiteness, smoke suppressor, inert reactivity, halogen-free fire retardant, etc. In combination with the acrylic part, generates the final Krion® articles. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

METHYL METHACRYLATE (METHYL METHACRYLATE)

ID: 80-62-6

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-07-12 8:38:38

%: 5.0000 - 45.0000

GreenScreen: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Monomer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
EYE	GHS - New Zealand	Eye irritation category 2
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - 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]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
SKI	GHS - New Zealand	Skin sensitisation category 1
SKI	GHS - Malaysia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
PHY	GHS - New Zealand	Flammable liquids category 2
PHY	GHS - Japan	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
PHY	GHS - Malaysia	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
PHY	GHS - Australia	H225 - Highly flammable liquid and vapour [Flammable liquids - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Some Solvents
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products

SUBSTANCE NOTES: Monomers are the basic unit in the polymerization process. Methyl methacrylate (MMA), the most important of the acrylic family, is a colorless organic compound essential in the production of polymethyl methacrylate products. As the main monomer of the Krion® formulation, is the reactive compound present in the acrylic resin. In combination with the acrylic part, generates the final Krion® articles. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:39**

%: **0.0000 - 20.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List Precautionary list of substances recommended for avoidance

SUBSTANCE NOTES: Polymethyl methacrylate is the resulting compound of the combination of methyl methacrylate monomer. This polymer is used as noncrosslinked compound to achieve the excellent properties of the final Krion® articles. In the final product, Krion® is an acrylic based polymer without hazards for humans.

N-BUTYL METHACRYLATE (N-BUTYL METHACRYLATE)

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:39**

%: **0.0000 - 15.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CAN	IARC	Group 2b - Possibly carcinogenic to humans
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]
SKI	GHS - New Zealand	Skin irritation 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]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Some Solvents

SUBSTANCE NOTES: N-butyl methacrylate is an acrylic family reactive monomer. Monomers are the basic unit in the polymerization process. It is a colorless organic compound used as a homopolymer. In combination with other monomers, leads to the final polymer composition and properties. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

2-METHYLPROPYL2-METHYL-2-PROPENOATE (2-METHYLPROPYL2-METHYL-2-PROPENOATE)

ID: 97-86-9

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:40**

#: **0.0000 - 15.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - 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]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Some Solvents

SUBSTANCE NOTES: Propanoate is an acrylic family reactive monomer. Monomers are the basic unit in the polymerization process. It is a colorless organic compound used as homopolymer. In combination with other monomers, leads to the final polymer composition and properties. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

CARBON BLACK (CARBON BLACK)

ID: 1333-86-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:38**

#: **0.0000 - 3.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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	IARC	Group 2b - Possibly carcinogenic to humans
EYE	GHS - New Zealand	Eye irritation category 2
CAN	GHS - New Zealand	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]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Carbon black is one of the most common pigments based on carbon. It is an excellent black coloring agent. Carbon black is a UV stabilizing agent to fix the final color properties. Pigments are essential for the aesthetic final Krion® articles. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

IRON HYDROXIDE OXIDE YELLOW (IRON HYDROXIDE OXIDE YELLOW)

ID: 20344-49-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-07-12 8:38:39		
%: 0.0000 - 3.0000	GreenScreen: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Pigment

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: This well-known hydrated iron oxide, is a natural mineral commonly used as pigment. These oxides provide a uniform and stable full shade of colors. Inorganic pigments are essential for the aesthetic final Krion® articles. In the final product, Krion® is solid acrylic based polymer without hazards for humans.

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2023-07-12 8:38:39		
%: 0.0000 - 3.0000	GreenScreen: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment

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	IARC	Group 2b - Possibly carcinogenic to humans
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: 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® articles are stable and homogeneous. Inorganic pigments are essential for the aesthetic final Krion® articles. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

FERRIC OXIDE (FERRIC OXIDE)

ID: 1309-37-1

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:40**

%: **0.0000 - 3.0000**

GreenScreen: **BM-1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: This iron oxide is derived from natural mineral with an excellent purity. These oxides provide a uniform and stable full shade of colors. Inorganic pigments are essential for the aesthetic final Krion® articles. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

IRON OXIDE BLACK (IRON OXIDE BLACK)

ID: 12227-89-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:40**

%: **0.0000 - 2.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: This iron oxide is derived from natural mineral with an excellent purity. These oxides provide a uniform and stable full shade of colors. Inorganic pigments are essential for the aesthetic final Krion® articles. In the final product, Krion® is a solid acrylic based polymer without hazards for humans.

BIS(2-ETHYLHEXYL) TEREPHTHALATE (BIS(2-ETHYLHEXYL) TEREPHTHALATE)

ID: 6422-86-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:40**

%: **0.0000 - 1.5000** GreenScreen: **BM-3dg** RC: **None** NANO: **No** SUBSTANCE ROLE: **Carrier**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Some Solvents

SUBSTANCE NOTES: Carriers are used in order to disperse pigments or colorants. It is an easy way of adding pigments and colorants, besides to eliminate inhalable dust hazard of these pigments or colorants. In the final product, Krion® is a solid acrylic based polymer without hazard for humans.

UNDISCLOSED

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:41**

#: **0.0000 - 1.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Accelerator**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - New Zealand	Skin corrosion category 1C
EYE	GHS - New Zealand	Serious eye damage category 1
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
EYE	GHS - Australia	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products

SUBSTANCE NOTES: Additives are used in small quantities in order to give or improve some properties to the final product, or modifying the intermediate properties helping the production process. In the final product, Krion® is a solid acrylic based polymer without hazard for humans.

UNDISCLOSED

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:41**

%: 0.0000 - 1.0000

GreenScreen: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Curing agent

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Cross-linking agents are an essential organic compound to achieve the excellent final properties of Krion®. During the manufacturing process, these agents react with the monomers in order to create a continuous polymer network. In the final product, Krion® is a solid acrylic based polymer without hazard for humans.

UNDISCLOSED

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:42**

%: 0.0000 - 0.7500

GreenScreen: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Accelerator

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Additives are used in small quantities in order to give or improve some properties to the final product, or modifying the intermediate properties helping the production process. In the final product, Krion® is a solid acrylic based polymer without hazard for humans.

UNDISCLOSED

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:42**

%: 0.0000 - 0.6000

GreenScreen: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Curing agent

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKI	GHS - New Zealand	Skin sensitisation category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 2
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Cure agents are compounds that through the generation of free radicals, carry out the polymerization of reactive monomers to produce the final polymer network. Cure agents are developed to enhance the final properties of Krion® articles as final product. In the final product, Krion® is a solid acrylic based polymer without hazard for humans.

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-07-12 8:38:41**

%: **0.0000 - 0.2000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Initiator**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
PHY	GHS - Japan	H241 - Heating may cause a fire or explosion [Organic peroxides - Type B]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Cure agents are compounds that through the generation of free radicals, carry out the polymerization of reactive monomers to produce the final polymer network. Cure agents are developed to enhance the final properties of Krion® articles as final product. In the final product, Krion® is a solid acrylic based polymer without hazard 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

UL/GreenGuard Gold Certified

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.

ISSUE DATE: 2012-09-07
EXPIRY DATE: 2024-09-07

CERTIFIER OR LAB: UL -
Underwriters Laboratories

CERTIFICATE URL: https://spot.ul.com/main-app/products/detail/5ad1f0c355b0e82d946ac945?page_type=Products%20Catalog

CERTIFICATION AND COMPLIANCE NOTES: This certificate, provided by UL - Underwriters Laboratories, ensures that Krion® 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® 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⁻¹ 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⁻¹ 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: 24139-420

VOC EMISSIONS

ISO 16000-6 Determination of volatile organic compounds in indoor

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: KRION SOLID SURFACE S.A.U.
CERTIFICATE URL:

ISSUE DATE: 2018-01-03
EXPIRY DATE:

CERTIFIER OR LAB: eco-
INSTITUTE

CERTIFICATION AND COMPLIANCE NOTES: This standard offers a classification according to the criteria established in the Decree No. 2011-321 of March 23, 2011 of French Ministry of Ecology, Sustainable Development, Transportation and Housing.

VOC CONTENT

ILFI Declare - LBC Compliant

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.

ISSUE DATE: 2023-04-26
EXPIRY DATE: 2024-05-01

CERTIFIER OR LAB: International
Living Future Institute

CERTIFICATE URL: <https://declare.living-future.org/products/krion-solid-surface>

CERTIFICATION AND COMPLIANCE NOTES: Living Building Challenge (LBC) Red List Approved is a status indicating that a product is in compliance with the requirements of the LBC Challenge, but that compliance is dependent on one or more exceptions. Krion® claims its product is LBC Red List Approved, it must disclose 99 percent of ingredients and residuals present at or above 100 ppm or 0.01 percent.

RECYCLED CONTENT

SCS Recycled Content Certification

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.

ISSUE DATE: 2023-04-01
EXPIRY DATE: 2024-03-31

CERTIFIER OR LAB: SCS Global
Services

CERTIFICATE URL:
<https://www.scsglobalservices.com/certified-green-products-guide>

CERTIFICATION AND COMPLIANCE NOTES: Krion® conforms to SCS Recycled Content Standard V7-0 according to the following certifications; [Minimum 6 % Pre-Consumer Recycled Acrylic Content applies to select colors: Bright Concrete, Crystal White +, Dune Nature, Earth Nature, Marfil Nature, Polar Stone, White Nature, Iceberg White. Registration # SCS-RC-03322.] [Minimum 12 % Pre-Consumer Recycled Acrylic Content applies to select colors: Ash Nature, Bright Rock, Camel Nature, Clear Nature, Crystal White, Grey Nature, Asteroid Cream. Registration # SCS-RC-03323.] [Minimum 20 % Pre-Consumer Recycled Acrylic Content applies to select colors: Asteroid Brown, Asteroid Dark, Asteroid Grey, Asteroid Mocha, Asteroid Taupe, Asteroid White, Camel Nature, Clear Nature, Crystal Black, Dark Copper, Deep Granite, Grey Gold, Sand Copper, White Copper. Registration # SCS-RC-04200.] [Minimum 40 % Pre-Consumer Recycled Acrylic Content applies to select color: Bianco Classico, Marmo Bianco, Grafite Classico, Pietra, Concrete, Grigio Classico. Registration # SCS-RC-04290.]

OTHER

ANSI/NSF 51-2012 Food equipment materials

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.
CERTIFICATE URL: <http://www.nsf.org/certified-products-systems>

ISSUE DATE: 2013-11-25
EXPIRY DATE:

CERTIFIER OR LAB: NSF
International

CERTIFICATION AND COMPLIANCE NOTES: NSF Certification (National Science Foundation), recognized body from the United States that acts in the issuance of health, hygiene, and environmental certificates, considers Krion® as a safe material for its direct contact with all kinds of food, without posing any health risk. Certificate Number: C0102265 - 02

OTHER **REACH European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.
CERTIFICATE URL:

ISSUE DATE: 2021-01-28
EXPIRY DATE:

CERTIFIER OR LAB: SGS

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® 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® 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: HKHL1501002788JL

MANAGEMENT **ISO 9001:2015 Quality management systems**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.
CERTIFICATE URL: <http://www.sgs.es/es-es/certified-clients-and-products/certified-client-directory>

ISSUE DATE: 2019-08-20
EXPIRY DATE: 2024-07-18

CERTIFIER OR LAB: SGS

CERTIFICATION AND COMPLIANCE NOTES: Thanks to the implementation of a Quality Management System as per the UNE-EN ISO 9001 standard, the company demonstrates its ability to consistently provide products or services that meet the customer's requirements and the applicable regulations. The scope is design, developing and production of Solid Surface Materials for kitchen and bathroom furniture, shower trays, bathtubs and countertops. Also design and production of Krion® Adhesives. Certificate Number: ES15/17872

MANAGEMENT **ISO 14001:2015 Environmental Management System Certification**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.
CERTIFICATE URL: <http://www.sgs.es/es-es/certified-clients-and-products/certified-client-directory>

ISSUE DATE: 2019-09-17
EXPIRY DATE: 2025-09-17

CERTIFIER OR LAB: SGS

CERTIFICATION AND COMPLIANCE NOTES: This standard offers the possibility of systematizing the environmental aspects generated in each of the activities carried out, in addition to promoting environmental protection and the prevention of pollution from a socio-economic balance point of view. The scope is design, developing and production of Solid Surface Materials for kitchen and bathroom furniture, shower trays, bathtubs and countertops. Also design and production of Krion® Adhesives. Certificate Number: ES15/17871

MANAGEMENT **ISO 50001:2018 Energy Management System**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: KRION SOLID SURFACE,
S.A.U.
CERTIFICATE URL: <http://www.sgs.es/es-es/certified-clients-and-products/certified-client-directory>

ISSUE DATE: 2023-02-28
EXPIRY DATE: 2026-02-28

CERTIFIER OR LAB: SGS

CERTIFICATION AND COMPLIANCE NOTES: This certification demonstrates a commitment to continual improvement in energy management, allowing KRION SOLID SURFACE, S.A.U. to lead by example within its respective industries and ensure related legislative and regulatory requirements are met. The scope is design, developing and production of Solid Surface Materials for kitchen and bathroom furniture, shower trays, bathtubs and countertops. Also design and production of Krion® Adhesives. Certificate Number: ES20/87383

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

MANUFACTURER (OR GENERIC): KRION SOLID SURFACE, S.A.U.

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

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Krion® Adhesive can be used for creating seamless sections with Krion®. Krion® Adhesive must always be used in a well ventilated place, stored in a cool place and use the necessary protection (goggles, gloves, etc.). This adhesive only can be used in order to bond Krion® material. Before using Krion® Adhesive, read the "Use Instructions". Krion® Adhesive is formulated with the latest technology for the surfacing industry and offers excellent bonding to solid surface substrates. Krion® Adhesive, formulated with two components (Component A and Component B), has high resistance to water, scuffing and high temperatures and also possesses greater toughness and impact resistance than most other solid surface adhesives in the market. Fabricators will benefit from the environmental conformance properties of Krion® Adhesive as well. It is manufactured to the highest standard available and it faces stringent quality control tests prior to sale and distribution. In addition, KRION SOLID SURFACE, S.A.U. meets the requirements for Low VOC emission limits, certified by Greenguard. Krion® Adhesive has been verified in order to demonstrate 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® Adhesive 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 %.

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; 09 75 23 Simulated Stone Wall Facing.

Krion® can be manufactured in the form of sheets, sinks, wash basins, etc. It is composed by inert mineral, acrylic resins and colorants creating a new generation of solid surface able to improve the main properties of other products. Moreover, Krion® has been certified by external laboratories in order to demonstrate its great characteristics, overcoming tests and certificates like REACH, Greenguard Gold, NSF, SCS, etc. Furthermore, Krion® helps meeting LEED V4 requirements creating new and more sustainable buildings.

Certifications like SCS Recycling Content in four different series, reaching 40 % of recycling content, Environmental Product Declaration according to ISO 14025 for Krion® and ISO 14001 certification for its facilities demonstrates the compromise of KRION SOLID SURFACE, S.A.U. with people and environment. Not only Krion®, also Krion® Adhesive, has been certified in Greenguard Gold, NSF and Reach among others.

In order to prevent workers who use Krion®, KRION SOLID SURFACE, S.A.U. has analyzed dust toxicity and smoke toxicity generated during trimming, cutting or milling. External laboratories has certified that there is no presence of silica in Krion®, breathable fraction is lower than workplace exposure limit (WEL) and emissions generated during cutting are not toxic. However, KRION SOLID SURFACE, S.A.U. strongly recommends consulting Krion® SDS 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 annually 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. Vila-Real - 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	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.