


IQ Natural

Issued to: Tarkett
 Issue date: June 05. 2018
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 Evaluation threshold: At least 100 ppm of the final product
 After-use scenario: [Tarkett ReStart® program](#)
 EPEA Registry No: 39909.1 MHS Version: 2.0

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM	REACH
Polymer	Polyvinylchloride	9002-86-2	<50%		Transitional use of PVC is tolerated in the durable flooring application because of the ReStart® offer of Tarkett for the management after use ^(a) . Purchased PVC products contain less < 1 ppm residual monomer	LT-UNK	✓
Plasticizer	Acetic ester of monoglycerides	736150-63-3	<15%		Plasticizer produced from vegetal sources, approved for applications with food contact.	N.I.	✓
Filler	Proprietary	Proprietary 1	32%		Minerals containing low quartz levels. No concern in the finished product	LT-UNK N.I. LT-UNK	✓ ✓ ✓
Heat stabilizer	Proprietary components of a calcium/zinc heat stabilizer system	Proprietary 2	<1%		Environmentally best performing heat stabilizer combination	BM3 LT-UNK LT-UNK N.I.	✓ ✓ ✓ ✓
	Epoxidized soybean oil	8013-07-8	<5%		Acts as plasticizer and scavenger of hydrochloric acid that may be formed when the flooring is heated. Synergists with Ca-Zn soaps	LT-UNK	✓
Pigments	Titanium dioxide	13463-67-7 18282-10-5 1317-80-2	0,50%		Potential health issues related to dust inhalation during mining/production. No concern in the finished product	LT-1	✓
	Carbon black	1333-86-4				BM1	✓
	Various depending on designs	Proprietary 1			Mineral pigment based on elements Na, Al, Si, S and O	N.I.	✓
					Potential health issues associated with chlorinated or copper containing organic pigments in case of incineration	LT-UNK BM3 N.I.	✓
Coating	Polyurethane Acrylate	Proprietary 3	<1%		Assessment process ongoing	N.I.	✓
Formulation auxiliaries/ Impurities	Polymerization additives and other	Proprietary 3	<1,5%		Formulation and production auxiliaries originating from different inputs. Polymerization additives are unknown, yet	N.I.	✓
	Aluminium hydroxide, amorphous	21645-51-2				BM2	✓
	Silicon dioxide, amorphous	7631-86-9				LT-UNK	✓
	Water	7732-18-5				BM4	✓

EPEA's rating methodology is based on the Cradle to Cradle approach with the European Precautionary principle. It is made in relation with a quality target, an after-use scenario and on the background of the specific supply chain materials used by the article's manufacturer. The assessment of hazard/safety properties of chemicals

is made at the best of our knowledge at the date of MHS™ issue: (See [MHS development Guidance V2.0](#)). EPEA believes the data forth herein are accurate as of the date hereof. EPEA makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.



Michael Braungart

CEO

EPEA Internationale Umweltforschung GmbH







Alain Rivière

Senior Scientist

EPEA Internationale Umweltforschung GmbH

Legend:

EPEA RATING:

-  No concern
-  Moderate concern
-  High concern – Task for material optimization
-  Unknown concern - Task for knowledge development

REACH compliance:

- ✓: Substance is listed neither in Annex XIV nor in Annex XVII nor as SVHC and complies with European Union Regulation EC 1907/2006 applicable to this article.
- XVII** or **XIV**: Substance listed in Annex XVII (Restriction) or Annex XIV (Authorisation) of REACH regulation applicable to this article
- SVHC**: Substance of Very High Concern. Candidate for listing in Annex XIV (Authorization list) of REACH Regulation at a concentration above 0.1%
- : Not applicable due to missing CAS

GS-LT^(b)

- LT-1**: Chemical is found on an authoritative list of the most-toxic chemicals
- LT-P1**: Chemical may be a serious hazard, but the confidence level is lower
- LT-UNK**: Unknown (no data on List Translator Lists)

GS- BM^(b)

- BM1**: Avoid: Chemical of High Concern
- BM2**: Use but search for Safer Substitutes
- BM3**: Use but still opportunity for improvement
- BM4**: Prefer: Safer Chemical
- BMU**: "Unspecified"; insufficient data
- N.I.** (No GS rating): Chemical is not listed in the source of GS and GS-LT ratings

(a): Please refer to [EPEA's position on PVC and chlorine management](#)

(b) GreenScreen List Translator Score and GreenScreen Benchmark Score according to [Toxnot](#)

Proprietary 1, 2 or 3: Distinguishing between owners of information (see [MHS Development Guidance V2.0](#))

LEED v4 – Score Card

Homogeneous Vinyl Flooring

PRODUCTS COVERED iQ Natural

MATERIAL & RESOURCES

MRc2. Building product disclosure and optimization – Environmental Product Declarations

- Option 1: Environmental Product Declaration (EPD) – 1 point
- Product-specific EPD Industry-wide (generic) EPD Product-specific declaration
- Option 2: Multi-attribute Optimization – 1 point
- 3rd party certified products that demonstrate impact reduction below industry average

MRc3. Building product disclosure and optimization – Sourcing of Raw Materials

- Option 1: Raw Material Source and Extraction Reporting – 1 point
- U.N. Global Compact GRI Sustainability Report ISO 26000 OECD
- Option 2: Leadership Extraction Practices – 1 point

Bio-based materials	Pre-Consumer	Post-Consumer	Manufacturing Location	Extended Producer Responsibility
-	-	-	Sweden	Yes (ReStart® program)

MRc4. Building product disclosure and optimization – Material Ingredients

- Option 1: Material Ingredient Disclosure – 1 point
- Manufacturer Inventory Cradle to Cradle Certification Declare HPD
- Option 2: Material Ingredient Optimization – 1 point
- Cradle to Cradle Certification GreenScreen Benchmark REACH Other

MRc5. Construction and demolition waste management

- Reclamation and recycling program proposed – Tarkett's ReStart® program

INDOOR ENVIRONMENTAL QUALITY

EQc1. Enhanced Indoor Air Quality strategies

- Enhanced IEQ Strategies – Abrasive Action entry walk-off systems – 1 point

EQc2. Low-emitting materials

- Certification compliant with California Department of Public Health (CDPH) – FloorScore®
- TVOC emissions 0.5 mg/m³ or less Between 0.5 and 5.0 mg/m³ 5.0 mg/m³ or more

For more information please visit www.tarkettna.com/mhs or contact us mhs@tarkett.com