

Bioattributed iQ Range

Issued to: TARKETT

Product specifications iQ GRANIT, iQ EMINENT

Issue date: 15.12.2022

Expiration date: 14.12.2024

Evaluation threshold: At least 100 ppm of the final product

After-use scenario: TARKETT ReStart® Program

EPEA Registry No: 40573

MHS Version: 2.0

FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM (b)	REACH
PVC	PVC	9002-86-2	< 52%		Transitional use of PVC is tolerated in durable applications designed with good materials and a collection and recycling program in place(a). Vinyl chloride content is below 1 ppm in purchased products. Tarkett proposes to take back your installation residues and plans to propose to take back your products after use, thanks to the ReStart® program. Check Tarkett national websites for Restart program availability.	LT-P1	~
	Polymerization additives	Proprietary 3	< 0,5%			N.I.	-
Fillers	Calcium carbonate	13397-25-6	< 35%		Fillers consist of pulverized calcium carbonate of virgin origin with processing additives. Low levels of quartz. No concern in the finished product.	None	✓
	Dolomite	16389-88-1				LT-UNK	✓
	Kaolin	95077-05-7				N.I.	✓
	Crystalline silica - Quartz type	14808-60-7				LT-1	✓
	Diirontrioxide	1309-37-1				BM1	✓
	Proprietary	Proprietary 3				N.I.	-
Plasticizers	1,2-Cyclohexanedicarbo- xylic acid, 1,2-diisononyl ester (DINCH)	166412-78-8	< 20%		Alternatives to phthalate plasticizers. DINCH is produced by hydrogenation of DINP with thus modified properties. No toxicity identifiable, especially no mutagenicity, carcinogenicity or reproductive toxicity observed in animal tests. Capacity of MINCH (primary metabolic product of DINCH) to interfere with the metabolism and differentiation of adipocytes in in-vitro experiments was assumed in 2015 but convincingly refuted in more recent scientific publications. No concern with DEHT, especially no disruption of developmental pathways observed with metabolic products of DEHT.	LT-UNK	~
	Terephthalic acid, dioctyl ester (DEHT)	6422-86-2				LT-UNK	~
	1,2-Cyclohexanedicarbo- xylic acid, 1-methyl, 2- iisononyl ester (MINCH)	Not available				N.I.	✓
	Proprietary	Proprietary 3				N.I.	-
Stabilizers	Soybean oil, epoxidized (ESBO)	8013-07-8	< 3,5%		ESBO is a scavenger of hydrochloric acid that may be formed during the flooring use period. It has a	LT-P1	✓
	Proprietary	Proprietary 2			plasticizing effect in addition. Other components of the heat stabilization belong to a calcium/zinc based	LT-UNK	✓
					system. Migration potential of the different	LT-P1	✓
					components of the heat stabilization system is	N.I.	✓
					unknown but no concern in case of migration.	BM3	✓

Carbon Black 61512-59-2 Mica 12001-26-2 Mica 12001-26-2 Pigment Blue 15 147-14-8 12239-87-1 Pigment Green 7 1328-53-6 Pigment Red 254 84632-65-5 Pigment Red 254 84632-65-5 Pigment Red 144 5280-78-4 Pigment Pigment Vellow 95 5280-80-8 and inks and inks Pigment Yellow 31 5567-15-7 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 zirconium dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Additives Acylic polymer Proprietary 3 Polyurethane Proprietary 3 Polyurethane Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Additives Acylic polymer Proprietary 2 Proprietary Proprietary 2 Additives Proprietary Proprietary 2 Additives Acylic polymer Proprietary 2 Proprietary Proprietary 2 Additives Acylic polymer Proprietary 2 Proprietary Proprietary 2 Additives Proprietary Proprietary 2 Additives Proprietary Proprietary 2 Additives Acylic polymer Proprietary Proprietary 2 Additives Proprietary Proprietary Proprietary 2 Additives Acylic polymer Proprietary Proprietary 2 Additives Proprietary Proprietary Proprietary 2 Additives Acylic polymer Proprietary Propr	FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM (b)	REACH	
Mica 12001-26-2 Pigment Blue 15 147-14-8 12239-87-1 Pigment Green 7 1328-53-6 Pigment Red 254 84632-65-5 Pigment Red 144 5280-78-4 Pigment Yellow 95 5280-80-8 Pigment Yellow 83 5567-15-7 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Additives Additives Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Polyurethane Proprietary 2 Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Mineral fillers and the chlorine part of PVC are most predominant cont figure. Only virgin raw materials are counted in this section. Mineral fillers and acrylic monomers metal to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Pligments labelled red either contain copper or are chlorinated organic compounds. Copper containing pigments are not recommended for reasons explained in "EPEA's position on PVC and chlorine management" (a). III. III. III. III. III. III. III.		Titanium Dioxide	13463-67-7	< 2%		during mining/production of titanium dioxide. No concern in the finished product. Pigments labelled red either contain copper or are chlorinated organic compounds. Copper containing pigments are not recommended in the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated pigments are not recommended for reasons explained in "EPEA's position on PVC and	LT-1	✓	
Pigment Blue 15 147-14-8 12239-87-1 Pigment Green 7 1328-53-6 Pigment Red 254 84632-65-5 Pigment Red 254 84632-65-5 Pigment Red 144 55280-78-4 Pigment Yellow 95 55280-80-8 Pigment Yellow 83 5567-15-7 Pigment Yellow 110 106276-80-6 Pigment Green 64 Aluminium trihydrate Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary Proprietary 3 Additives Polyurethane Proprietary 2 Polyurethane Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Post-use Source Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Pigments labelled red either contain copper or are chlorinated organic compounds. Copper containing pigments are not recommended in the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated pigments are not recommended for reasons explained in "EPEA's position on PVC and chlorine management"(6). III. III. III. III. III. III. III.		Carbon Black	61512-59-2				BM1	✓	
Pigment Blue 15 12239-87-1 Pigment Green 7 1328-53-6 Pigment Red 254 84632-65-5 Pigment Red 144 5280-78-4 Pigment Yellow 95 5280-80-8 Pigment Yellow 95 5280-80-8 Pigment Yellow 110 106276-80-6 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 Silicon dioxide 69012-64-2 Proprietary Proprietary 3 Additives Acrylic polymer Proprietary 3 Surface treatment Polyment Surface Treatment Proprietary Proprietary 2 Polyment Agency Proprietary 2 Polyment Agency Proprietary 3 Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. IT. Pigment Yellow 95 5280-80-8 Pigment Yellow 95 5280-80-8 Pigment Yellow 110 106276-80-6 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 Silicon dioxide 69012-64-2 PrOC 9002-86-2 Proprietary Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Polyurethane Proprietary 3 Surface Treatment Proprietary Proprietary 2 Proprietary Proprietary 2 Aluminium phosphate 784-30-7 Portional dioxide 69012-64-2 Proprietary Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Polyurethane Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Polyurethane Proprietary 2 Proprietary Proprietary 2 Aluminium phosphate 784-30-7 Portional dioxide 69012-64-2 Proprietary Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 4 Aluminium phosphate 784-30-7 Proprietary Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Acrylic polymer Proprietary 4 Acryli		Mica	12001-26-2				LT-UNK	✓	
Pigment Red 254 84632-65-5 Pigment Red 144 5280-78-4 Pigment Yellow 95 5280-80-8 Pigment Yellow 95 5280-80-8 Pigment Yellow 83 5567-15-7 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 zirconium dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Additives Acrylic polymer Proprietary 3 Polyurethane Proprietary 2 Polyurethane Proprietary 2 Proprietary Proprietary 2 Polyurethane Proprietary 2 Proprietary Proprietary Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary Proprietary 2 Proprietary Proprietary Proprietary 2 Proprietary Proprietary Proprietary Proprietary 2 Proprietary Proprietary Proprietary Proprietary 2 Proprietary P		Pigment Blue 15	_				LT-UNK	✓	
Pigment Red 144 5280-78-4 Pigment Red 144 5280-78-4 Pigment Yellow 95 5280-80-8 Pigment Yellow 83 5567-15-7 Pigment Vellow 83 5567-15-7 Pigment Vellow 110 106276-80-6 Pigment Orange 64 72102-84-2 Zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Surface treatment Proprietary 4 Surface Thermal Proprietary Proprietary 2 THEREOF: Content sourced from abundant minerals - Internal post-industrial source (Recycled content - Post-use source - The Content sourced from application. Pre-use source - Post-use source - The Content source of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated organic compounds. Copper containing pigments are not recommended for the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated organic compounds. Copper containing pigments are not recommended for the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated organic compounds. Copper containing pigments are not recommended for the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated organic compounds. Copper containing pigments labelled red either contain to following pigments are not recommended for the chlorine and sulvive activity of copper for the formation of dioxins in case of fire. Chlorinated organic compounds. Copper containing pigment real chlorine and sulvive activity of copper for the formation of dioxins in case of fire. Chlorinated organic compounds. Copper containing pigment real chlorine and sulvive activity of copper for the formation of figure. IT- IT- IT- IT- IT- IT- IT- IT- IT- IT		Pigment Green 7	1328-53-6				LT-UNK	✓	
Pigment Red 144 5280-784 Pigment Yellow 95 5280-80-8 and inks Pigment Yellow 83 5567-15-7 Pigment Yellow 110 106276-80-6 Pigment Yellow 120 72102-84-2 Aluminium trihydrate 1333-84-2 Zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Additives Additives Polyurethane Proprietary 3 Polyurethane Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 3 Surface treatment Polyurethane Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Surface treatment Proprietary Proprietary 2 Acrylic polymer Proprietary 3 Acrylic polymer With unknow exact structure. Despite this fact, no concern in the finished product. Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. Turnitary Proprietary Proprietary 2 Aluminium rihydrate 13314-23-4 Acrylic polymer With unknow exact structure. Despite this fact, no concern in the finished produ		Pigment Red 254	84632-65-5				LT-UNK	✓	
Pigment Yellow 95 5280-80-8 79 79 79 79 79 79 79 7		Pigment Red 144	5280-78-4				LT-UNK	✓	
Pigment Yellow 83 556/15-7 Pigment Yellow 110 106276-80-6 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Additives Proprietary 3 Additives Proprietary 3 Additives Proprietary 3 Additives Proprietary 2 Proprietary 2 Proprietary 2 Proprietary 2 Proprietary 3 Additives Proprietary 4 Proprietary 5 Additives Proprietary 5 Additives Proprietary 6 Proprietary 6 Additives Proprietary 6 Proprietary 7 Proprietary 8 Additives Proprietary 9 Proprietary 9 Proprietary 9 Proprietary 9 Additives Proprietary 9 Proprietary 9 Additives Proprietary 9 Proprietary 9 Additives Proprietary 9 Proprietary 9 Aluminium phosphate Aluminium phosphate Proprietary 9 Aluminium phosphate Aluminium phosphate Aluminium phosphate Aluminium phosphate Aluminium phospha		Pigment Yellow 95	5280-80-8				LT-P1	✓	
Pigment Vellow 110 1062/8-80-6 Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 Additives Acrylic polymer Proprietary 3 Polyurethane Proprietary 2 Proprietary Proprietary 2 Proprietary Proprietary 2 Aluminame Proprietary 2 Additives One involved additive is an acrylic polymer with unknow exact structure. Despite this fact, no concern in the finished product. Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. THEREOF: Content sourced from abundant minerals - Internal post-industrial source (Reprocessed own production output) - Post-installation / Pre-use source - Post-use source - Post-use source		Pigment Yellow 83	5567-15-7				LT-P1	✓	
Pigment Orange 64 72102-84-2 Aluminium trihydrate 1333-84-2 zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9902-86-2 Proprietary Proprietary 3 <1% One involved additive is an acrylic polymer with unknow exact structure. Despite this fact, no concern in the finished product. Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. THEREOF: Content source from abundant minerals Pigment Orange 64 72102-84-2 Aluminium trihydrate 133-84-2 EIT. LT-		Pigment Yellow 110	106276-80-6				LT-UNK	✓	
Aluminium trihydrate 1333-84-2 zirconium dioxide 1314-23-4 Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3		Pigment Orange 64	72102-84-2				LT-UNK	✓	
Content sourced from abundant minerals Content source		-	1333-84-2				LT-UNK	✓	
Silicon dioxide 69012-64-2 Aluminium phosphate 7784-30-7 PVC 9002-86-2 Proprietary Proprietary 3 One involved additive is an acrylic polymer with unknow exact structure. Despite this fact, no concern in the finished product. Polyurethane Proprietary 3 Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. THEREOF: Content sourced from abundant minerals C60% Mineral fillers and the chlorine part of PVC are most predominant continging in the content of the properties of the properties of the content of the properties of the properties of the content of the properties of the prope		zirconium dioxide	1314-23-4				LT-UNK	✓	
PVC 9002-86-2 Proprietary Proprietary 3 Additives Acrylic polymer Proprietary 3 Polyurethane Proprietary 2 Proprietary 2 Proprietary 4 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Proprietary 3 Proprietary 3 Acrylic polymer Proprietary 3 Proprietary 3 Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. THEREOF: Content sourced from abundant minerals - Internal post-industrial source (Reprocessed own production output) - Post-installation / Pre-use source - Post-use source - Post-use source - Internal post-industrial composition.		Silicon dioxide	69012-64-2				LT-P1	✓	
PVC 9002-86-2 Proprietary Proprietary 3 Additives Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Proprietary 3 Acrylic polymer with unknow exact structure. Despite this fact, no concern in the finished product. Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. THEREOF: Content source from abundant minerals Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Acrylic polymer		Aluminium phosphate	7784-30-7				LT-UNK	√	
Additives Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Proprietary 3 Proprietary 3 Proprietary 3 Acrylic polymer Proprietary 3 Proprietary 3 Proprietary 3 Acrylic polymer Proprietary 3 Proprietary 3 Proprietary 3 Acrylic polymer No Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. THEREOF: Content sourced from abundant minerals Acrylic polymer Acryli		·	9002-86-2				LT-P1	√	
Additives Acrylic polymer Proprietary 3 Acrylic polymer Proprietary 3 Polyurethane Proprietary 3 Proprietary 3 Proprietary 4 Proprietary 4 Proprietary 4 Proprietary 5 Proprietary 6 Proprietary 6 Proprietary 6 Proprietary 6 Proprietary 7 Proprietary 6 Proprietary 7 Proprietary 6 Proprietary 7 Proprietary 8 Proprietary 8 Proprietary 9 Proprietary 9 Proprietary 9 Proprietary 2 Proprietary 9 Proprietary 1 Proprietary 9 Proprietary 3 Proprietary 5 Proprietary 3 Proprietary 4 Proprietary 3 Pro		Proprietary	Proprietary 3				N.I.	-	
Surface treatment Proprietary	Additives	Acrylic polymer	Proprietary 3	< 1%		unknow exact structure. Despite this fact, no	N.I.	-	
Surface treatment Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary 2 - 1% Proprietary Proprietary 2 - 1% Proprietary Proprietary 2 - 1% - 1% - 1% - 1% - 1% - 1% - 1% - 1		Polyurethane	Proprietary 3			Complex coating macropolymer based on	N.I.	-	
treatment Proprietary Proprietary 2			,	-		during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw	LT-P1	✓	
Content sourced from abundant minerals - Internal post-industrial source (Reprocessed own production output) - Post-installation / Pre-use source - Post-use source - Mineral fillers and the chlorine part of PVC are most predominant cont figure. Only virgin raw materials are counted in this section. The Bioattributed IQ range is produced exclusively with virgin raw defined recycled materials with the same chemical composition.		Proprietary	Proprietary 2	< 1%			None	✓	
Content sourced from abundant minerals - Internal post-industrial source (Reprocessed own production output) - Post-installation / Pre-use source - Post-use source - Post-use source	THEREOF:								
Recycled content (Reprocessed own production output) 25.5% The Bioattributed IQ range is produced exclusively with virgin raw defined recycled materials with the same chemical composition.	Content sourced from abundant minerals			< 60%	Mineral fillers and the chlorine part of PVC are most predominant contributors to this figure. Only virgin raw materials are counted in this section.				
		(Reprocessed own production output) - Post-installation / Pre-use source		25.5%	The Bioattributed IQ range is produced exclusively with virgin raw materials and defined recycled materials with the same chemical composition.				
				-					
- \/Ordfa	renewable			No chemical with a possible animal origin is identified. The hydrocarbon backbone of bioattibuted PVC, epoxidized soy bean oil, and other quantitatively minor additives have a vegetal origin.					

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 further 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.

Dr. Peter Mösle

Partner & Managing Director

CEPEA

PART OF DREES & SOMMER

Dr. Alain Rivière Scientific Supervisor

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 or 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)