IQ Range

Issued to: **TARKETT**

Product specifications iQ Granit, Granit Multisafe, iQ Granit Acoustic, iQ Megalit, iQ Eminent, iQ Optima, iQ Optima Acoustic, iQ Surface, iQ Granit SD, iQ Toro SC

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: 39851.4

MHS Version: 2.0

FUNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM[(b)]	REACH
PVC	PVC	9002-86-2	< 52.5%		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 your products after use, thanks to the ReStart® program. **Check Tarkett national websites for Restart program availability.**	LT-P1	✓
	Proprietary	Proprietary 3				N.I.	-
Fillers	Proprietary	Proprietary 1	< 35.3%		Fillers consist primarily of pulverized stones that include minor contents of other minerals. Low respirable quartz levels. No concern in the finished product	None	✓
						LT-UNK	✓
						N.I.	✓
						LT-1	✓
						BM1	✓
		Proprietary 3				N.I.	-
Plasticizers	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH)	166412-78-8	< 22.4%		Alternative 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	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester	Not available				N.I.	✓
	Terephthalic acid, dioctyl ester (DEHT)	6422-86-2				LT-UNK	✓
Stabilizers	Soybean oil, epoxidized	8013-07-8	< 5.1%		ESBO is a scavenger of hydrochloric acid that may be formed during the flooring use period) with plasticizing effect. Chemically well-defined and environmentally best performing calcium/zinc heat stabilizer system.	LT-P1	✓
	Proprietary	Proprietary 2				BM3	✓
						LT-P1	✓
						LT-UNK	✓
						LT-P1	✓
						N.I.	✓
		Proprietary 3				N.I.	-

FUNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM[(b)]	REACH
Pigments	Titanium Dioxide	13463-67-7	< 3.5%		Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Chlorinated and copper containing pigments are not recommended even in the context of PVC.	LT-1	✓
	Carbon Black	61512-59-2				BM1	✓
	Mica	12001-26-2				LT-UNK	✓
	Pigment Blue 29	1302-83-6				None	✓
	4-Chloro-2',5'-dimethoxy-acetoacetanilide'	4433-79-8				LT-P1	✓
	Pigment Blue 15	147-14-8				LT-UNK	✓
	Pigment Red 144	5280-78-4				LT-UNK	✓
	Pigment Red 254	84632-65-5				LT-UNK	✓
	Pigment Yellow 110	106276-80-6				LT-UNK	✓
	Pigment Yellow 83	5567-15-7				LT-P1	✓
	Pigment Yellow 95	5280-80-8				LT-P1	✓
	Proprietary	Proprietary 3				N.I.	-
Additives	Bis(2-ethylhexyl)adipate	103-23-1	< 3.4%		No risk expectable from the processing aids used. However, a minor share remains only approximately defined.	LT-P1	✓
	Zirconium dioxide	1314-23-4				LT-UNK	✓
	Aluminium trihydrate	1333-84-2				LT-UNK	✓
	Tin dioxide	18282-10-5				LT-UNK	✓
	Alcohols, C11-15-secon-dary, ethoxylated	68131-40-8				LT-P1	✓
	Silicon dioxide	69012-64-2				LT-P1	✓
	Aluminum phosphate	7784-30-7				LT-UNK	✓
	Isopropyl alcohol	8013-70-5				None	✓
	Proprietary	Proprietary 3				N.I.	-
Surface Treatment	Proprietary	Proprietary 2	< 1%		Complex coating macropolymer based on polyurethane acrylate that is UV cured during application. The chemical nature of the polyurethane contribution is object of investigations	LT-P1	✓
						LT-UNK	✓
						None	✓
		Proprietary 3				N.I.	-
Acoustic layer	Polyurethane	Proprietary 3	< 17%		Approximately defined, polyurethane-based acoustic layer	N.I.	✓
	MDI-based prepolymer	Proprietary 2				LT-UNK	✓
	Carbon Black	61512-59-2				BM1	-

THEREOF			
Content sourced from abundant minerals		< 61.5%	Mineral fillers and the chlorine part of PVC are most predominant contributors to this figure. Contributions of recycled materials are counted exclusively under "Recycled content". Only virgin raw materials are counted in this section.
Recycled content[(*)]	- Internal post-industrial source (Reprocessed own production output)	22%	The IQ range is produced exclusively with virgin raw materials and defined recycled materials with the same chemical composition. iQ Optima Acoustic contains an acoustic foam layer with recycled content. The overall recycled content of this specification is 35%.
	- Post-installation / Pre-use source	3.5%	
	- Post-use source		
Biologically renewable content	- Animal	-	No chemical with a possible animal origin is identified.
	- Vegetal	4%	Epoxidized soybean oil is of vegetal origin and the only source identified.

(*) The acoustic layer is used only in the production of the iQ Optima Acoustic specification.

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.

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PART OF DREES & SOMMER

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)