

IQ Range

Issued to:	TARKETT
Product specifications	iQ Granit, iQ Granit Acoustic, Granit Multisafe, iQ Eminent, iQ Megalit, iQ Optima, Optima Acoustic, Optima Multisafe, iQ Surface
Issue date:	April 1 st , 2021. Reprint September 3 rd , 2021
Expiration date:	March 31 st , 2023
Evaluation threshold:	At least 100 ppm of the final product
After-use scenario:	TARKETT ReStart [®] Program
EPEA Registry No:	39581.3

MHS Version:

2.0	

FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(b)	REACH
PVC	PVC*	9002-86-2	<50%		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	✓
	Polymerization auxiliaries*	Proprietary 3	< 0.5%			N.I.	-
Fillers	Proprietary*	Proprietary 1	<30%		Fillers consist primarily of pulverized stones that include minor contents of other minerals. Low respirable quartz levels. No concern in the finished product	LT-UNK N.I. LT-1 BM1	✓ ✓ ✓ ✓
Plasticizers	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH)*	166412-78-8	<15%		Alternative to phthalate plasticizers approved for food contact application with high migration limit reflecting a	LT-UNK	✓
	Terephthalic acid, dioctyl ester (DOTP)*	4654-26-6			much better safety profile in the cases of DINCH and DOTP. 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. DOTP has an uncritical toxicity profile. No concern with the toxicologically well characterized benzoate plasticizer.	LT-UNK	~
	Dibenzoate oxyalkylene ester*	907-434-8				N.I.	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)*	Not available				N.I.	~
	Water*	7732-18-5				BM4	~
	Soybean oil, epoxidized*	8013-07-8	<5%		ESBO is a scavenger of hydrochloric	LT-P1	✓
	Proprietary* Proprietary*	Proprietary 2 Proprietary 2			acid that may be formed during the	LT-UNK	✓
Stabilizers					effect. Chemically well-defined and	LT-P1	 ✓
					environmentally best performing	BM3	✓
					calcium/zinc heat stabilizer system.	N.I.	-
						IN.I. BM1	- ✓
					No risk expectable from the	LT-UNK	√
Additives	Bis(2-ethylhexyl)adipate*	103-23-1			minor share remains only	LT-P1	✓
	Acrylic polymer*	Proprietary 3			approximately defined.	N.I.	-
	Alkylsilicone resin*					N.I.	-

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FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(b)	REACH	
	Titanium Dioxide*	13463-67-7	<1.5%		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 in the context of PVC.	LT-1	✓	
	Carbon Black*	1333-86-4				BM1	✓	
	Pigment Yellow 110*	106276-80-6				LT-P1	✓	
	Pigment Red 254*	84632-65-5				LT-UNK	✓	
	Pigment Yellow 95*	5280-80-8				LT-P1	✓	
Pigments	Silicon dioxide*	69012-64-2				LT-1	✓	
	Aluminum trihydrate*	1333-84-2				BM2	✓	
	Aluminum phosphate*	7784-30-7				LT-UNK	✓	
	Mica*	12001-26-2	1			LT-UNK	✓	
	Zirconium dioxide*	1314-23-4	_			LT-UNK	✓	
	Proprietary*	Proprietary 2				BM1	✓	
	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	None	✓	
Surface						LT-P1	✓	
Treatment	Water	7732-18-5				BM4	✓	
	Polyurethane*	Proprietary 3				N.I.	-	
	Polyurethane*		<10%		Approximately defined, polyurethane- based acoustic layer	N.I.	-	
Acoustic	MDI based Prepolymer*	Proprietary 3				N.I.	-	
layer	Carbon black*	1333-86-4				BM1	✓	
THEREOF:								
Content sourced from abundant minerals			56%	Calcium carbonate and the chlorine part of PVC are most predominant contributors to this figure.				
	- Internal post-industrial source		25%	Raw materials used to generate the recycled content have all an industrial pre-use origin and are therefore chemically largely defined. The				
Recycled	cled (Reprocessed own production output)		2370					
content	content - Post-installation / Pre-use source		0.5%	contribution of the recycled content is highlighted with * after the				
Piologically	- Post-use source							
renewable	- Animal		-	No chemical with a possible animal origin is identified.				
content	- Vegetal		5%	Epoxidized soybean oil is of vegetal origin and the only source ident				

(*) 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^m issue (see further <u>MHS Development Guidance V2.0</u>). 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



Dr. Alain Rivière

Scientific Supervisor

Legend:

EP	EA 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 XVI 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 <u>MHS Development Guidance V2.0</u>)