

Resilient Residential ICONIK Flooring Range

Issued to:	Tarkett
Issue date:	September 23., 2019
Expiration date:	September 23., 2021
Evaluation threshold:	At least 100 ppm of the final product
After-use scenario:	Tarkett ReStart® program
EPEA Registry No:	40478.1
MHS Version:	2.0
Product specifications:	ICONIK 120/150/200/240/260D/300/300+/320/400/450 220T/260T/280T/320T <i>Former collection: Exclusive 240/260/300/300+/300+G/320/370 280T/320T and Essentials 120/150/ 200/240G/240/260/300/300+/370/400/450/220T/260T/280T</i>

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM	REACH
PVC	Polyvinylchloride	9002-86-2	<45%		Transitional use of PVC is tolerated in the durable flooring application because of the ReStart® offer of Tarkett for the management	LT-P1	✓
	Proprietary	Proprietary 3	<1.5%			N.I.	-
Filler	Calcium carbonate	13397-25-6	<40%		Used raw materials contain low quartz levels. No concern in the finished product. The proprietary component is likely stearic acid involved for dust control.	LT-UNK	✓
	Crystalline silica - Quartz	14808-60-7	<0.3%			LT-1	✓
	Proprietary	Proprietary 3	<3%			N.I.	-
Plasticizer	1,2-Cyclohexanedicarboxylic	166412-78-8	<35%		Alternatives to phthalate plasticizers. The first three are approved for food contact applications in the EU and have a high migration limit specification reflecting their good safety profile. For the last one, the registration process within REACH encompassing Dibutyl terephthalate and its synthesis impurity (CAS 52392-55-9) concluded with "Conclusive but not sufficient for classification" with H-phrases.	LT-UNK	✓
	Benzoic acid isononyl ester	670241-72-2				LT-P1	✓
	Bis(2-ethylhexyl)adipate	103-23-1				LT-P1	✓
	Dibutyl terephthalate	1962-75-0	<0.25%			None	✓
	Terephthalic acid, butyl	52392-55-9				N.I.	✓
	Other synthesis impurities	Proprietary 3				N.I.	-
Stabilizer Blend	Soybean oil, epoxidized	8013-07-8	<1%		Synergetic blend of a potassium/zinc-based heat stabilizer system. 2-Ethylhexanoic acid and its salts are classified in the EU H361d (Suspected of damaging the unborn child - developmental toxicity) but delisted from the Californian Prop. 65 since 2013. This was justified with a lack of reliable evidence. Tests performed in the EU after the Californian decision showed neither impact on fertility nor on mice development but a developmental effect on rats at high exposure levels, only. No concern expected with the zinc salts of organic acids, incl. salts of 2-ethylhexanoic acid in the finished products. Weak sensitization potential of triisodecyl phosphite.	LT-P1	✓
	Triisodecyl phosphite	25448-25-3				LT-P1	✓
	Zinc 2-ethylhexanoate	136-53-8				LT-P1	✓
	Neodecanoic acid, zinc salt	27253-29-8				LT-P1	✓
	Potassium 2-ethylhexanoate	3164-85-0				LT-UNK	✓
	Zinc dibenzoate	553-72-0				LT-P1	✓
	Alcohols, C11-14-iso-, C13-rich	68526-86-3				LT-P1	✓
	Butylated hydroxytoluene	128-37-0				LT-P1	✓
	Proprietary	Proprietary 3	0.1%			N.I.	-
Additives	Zinc oxide	91315-44-5	1,20%		Auxiliaries and processing aids without function for the flooring production. All additives, formulation auxiliaries and impurities but 4 (Crystalline silica, Terephthalic acid, butyl methyl ester and two proprietary 2 components), are present at <0.1% each.	N.I.	✓
	Fatty acids, C16-18	67701-03-5				LT-UNK	✓
	Synthetic amorphous silica	112945-52-5				LT-UNK	✓
	Naphtha (petroleum),	64742-82-1				LT-1	✓
	Oxirane, 2-methyl-, polymer with oxirane, mono(3,5,5-	204336-40-3				LT-UNK	✓
	1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-	1760-24-3				LT-UNK	✓
	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3				LT-UNK	✓
	2-(2-n-Butoxyethoxy)ethanol	112-34-5				LT-P1	XVII

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Additives	Proprietary	Proprietary 2				N.I.	✓	
		Proprietary 3	<0.6%			LT-P1	✓	
						LT-UNK	✓	
						N.I.	-	
Carrier	Polyethylenterephthalate	25038-59-9				LT-P1	✓	
	Glass filament, continous	142844-00-6				N.I.	✓	
	Urea formaldehyde resin	-				N.I.	✓	
	Polyvinyl alcohol	9002-89-5	<5%		No issue expectable with the glass fibre, also during mechanical recycling and no contribution of the small amount of urea-formaldehyde resin to a product emitting formaldehyde. Various proprietary chemicals described by suppliers with generic descriptors suggesting that none of them has a REACH relevance	LT-UNK	✓	
	Co-polyester	-				N.I.	✓	
	Proprietary	Proprietary 2					LT-UNK	✓
		Proprietary 2					N.I.	-
Proprietary 3			<0.3%			N.I.	-	
Coating	Synthetic amorphous silica	112945-52-5				LT-UNK	✓	
	1,6-Hexandioldiacrylat	13048-33-4				LT-P1	✓	
	Urethane acrylate	187348-14-7				None	✓	
	Urea, polymer with	9011-05-6				LT-P1	✓	
	Melamine formaldehyde	-				N.I.	-	
	Polyurethane	-				N.I.	-	
	Pentaerythritol tetraacrylate	4986-89-4				LT-UNK	✓	
	Glycerolpropoxytriacyrlat	52408-84-1				LT-UNK	✓	
	Triethylamine	121-44-8				LT-UNK	✓	
	2-hydroxy-2-	7473-98-5				LT-UNK	✓	
	Paraffin waxes (petroleum),	64742-51-4				LT-UNK	✓	
	Polyamide 6	25038-54-4				LT-UNK	✓	
	Polyamide 12	24937-16-4				N.I.	✓	
	Oligo-[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]	163702-01-0				N.I.	✓	
	Aluminium oxide	1344-28-1				BM2	✓	
	Emulsion of a polyglycolether siloxane copolymer, silica free	-				N.I.	✓	
	Proprietary	Proprietary 2					LT-P1	✓
Proprietary 2						LT-UNK	✓	
Proprietary 3			<0.1%			N.I.	✓	
						N.I.	-	
Pigments / Inks	Aluminiumhydroxid	21645-51-2				BM2	✓	
	Synthetic amorphous silica	112945-52-5				LT-UNK	✓	
	Titanium Dioxide	13463-67-7				LT-1	✓	
	2-(2-n-Butoxyethoxy)ethanol	112-34-5	<0.5%			LT-P1	✓	
	Aluminum phosphate	7784-30-7				LT-UNK	✓	
	Ethyl butyl thiourea	62-56-6				LT-1	✓	
	Proprietary	Proprietary 2					LT-P1	✓
		Proprietary 3		<2%			N.I.	-
TOTAL VIRGIN CONTENT			>80%					

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM	REACH
UNDEFINED CONTENT							
Recycled PVC flooring			<20%		The recycled content originates for a part from Tarkett's production and contains predominantly chemicals mentioned above. Other chemicals in minor amounts, exceeding 100 ppm though, are not excluded. Residual PVC containing inputs originating from other industries are also processed. Tarkett ensures compliance with REACH with analytical testing and rejects SVHC substances containing recyclates.	N.I.	-

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 (more information in the "MHS development Guidance V2.0", link in the legend below). 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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Legend:

EPEA RATING:	REACH compliance:	GS-LT^(b)	GS- BM^(b)
 No concern	✓: 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.	LT-1: Chemical is found on an authoritative list of the most-toxic chemicals	BM1: Avoid: Chemical of High Concern
 Moderate concern	XVII or XIV: Substance listed in Annex XVII (Restriction) or Annex XIV (Authorisation) of REACH regulation applicable to this article	LT-P1: Chemical may be a serious hazard, but the confidence level is lower	BM2: Use but search for Safer Substitutes
 High concern – Task for material optimization	SVHC: Substance of Very High Concern. Candidate for listing in Annex XIV (Authorization list) of REACH Regulation at a concentration above 0.1%	LT-UNK: Unknown (no data on List Translator Lists)	BM3: Use but still opportunity for improvement
 Unknown concern - Task for knowledge development	- : Not applicable due to missing CAS		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
			None: Listed but no rating

(a) Please refer to EPEA's position on PVC and chlorine management: epea-hamburg.com/position-paper-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: <https://www.epea-hamburg.com/wp-content/uploads/2017/11/MHS-Guidance-document-V2.0.pdf>)