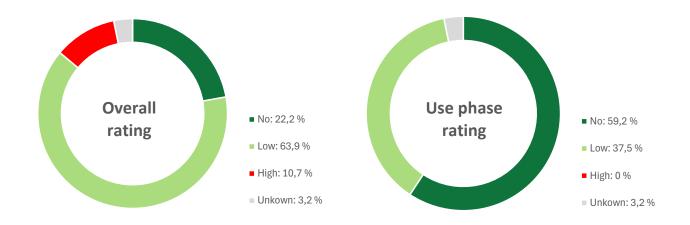


Heterogeneous polyvinyl floor covering with foam layer				
Company:	TARKETT			
Product specifications:	TX habitat genius, TX modulaire, TX habitat, TX classic, TX excellence genius 34, TX Essential 3-4, TX Excellence 17 db, TX Excellence 19 db, TX neo life, Acczent Excellence compact +, Acczent Platinium, Tapiflex Platinium, Nordic stabil, Nordic stabil plus, Stairs, tiles 50/65, dalle 3-4			
Issue date:	18. September 2025			
Expiration date:	17. September 2027			
Declaration and evaluation threshold:	At least 100 ppm of the final product			
After-use scenario:	ReStart® recycling and take-back programme <sup>(a)</sup>			
EPEA Registry No:	45604			
MHS Version:	3.0			

## **Chemicals Risk Assessment: Concern level**



This summary presents the average mass weighted distribution of material health ratings presented on next pages. Ratings address benefits and risks of chemical components of the product for humans and the living environment:

- \* during the phase of use of the product.
- \* overall while taking into account
- a) the last manufacturing step using raw materials leading to them in the product's composition,
- b) the production of raw materials in the supply chain as far as information is attainable from suppliers or from generic literature,
- c) the intended management scenario after use.

The benefit and risk analysis follows a qualitative and quantitative breakdown of the product's chemical composition from the chemical composition of raw materials, a reconstruction of chemical transformation pathways and an anticipation of the chemical's behaviour during the intended after-use processing. This information is combined with physical and (eco)toxicological properties of pure chemicals obtained from governmental and non-governmental scientific organisations to derive a level of concern. The MHS is making transparent at a point in time results of the company's activities for developing benefits of the product, including environmental and health benefits, with its purchasing and commercialization practices.



	CHEMICALS		CONTENT	EPEA R	ATING	GS-LT	
UNCTION	(Maximally present at ≥ 0,01%)	CAS		USE PHASE	OVERALL	GS-BM <sup>(c)</sup>	REACH
	Polyvinyl chloride	9002-86-2	≥ 37,3%			LT-P1	✓
	Proprietary	Proprietary	≤ 1,27%			N.I.	-
PVC	Proprietary  Transitional use of PVC is tolerate and recycling program in place <sup>(b)</sup> . proposes to take back your install thanks to the ReStart® program <sup>(a)</sup> . membrane-based chloralkali procresin products do not disclose the maxima based on scientific literatinational websites for Restart® proposes. Nanomaterials: No  Calcium carbonate  Quartz  Magnesite  Aluminium hydroxide  Glass oxide, chemicals  Other mineral filler  Fillers consist of pulverized stones primary and a recycling origin. Aluamounts of glass oxide chemicals  They do not recover their original production of a calcium carbonate handling during the flooring production of production of a calcium carbonate handling during the flooring production.	d in durable a Vinyl chloride ation residues The PVC resin esses accordir identity of poure and the kr ogram availab  471-34-1  14808-60-7  546-93-0  21645-51-2  65997-17-3  Proprietary s with mean pour and the correspond to function but a ceraw material	pplications content is k and plans to products a get to today lymerization nowledge of collity.  34,34%  34,34%	varying between the filling mater of concern do	in purchased take back y with chloring technologic Mentioned rization processes and 4 and a flame ed in recycle ial instead. Eluring its processes and the processes are processes are processes and the processes are processes are processes and the processes are processes are processes are processes and the processes are p	LT-UNK Add flooring metardant. New of flooring metardant and deciding	arkett after us from of the P estimat eck Tark
	product because particles are emb				'		I LIIC IIII
	Nanomaterials: No  1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)	166412-78-8		aria.		LT-UNK	√
	1,2-Cyclohexanedicarbo-xylic	166412-78-8				LT-UNK N.I.	✓ ✓
	1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)  1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)	Not available	20,24%			N.I.	✓ ✓
	1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)  1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)  Dibutyl terephthalate (DBT)  1,4-benzenedicarboxylic acid, butyl		20,24%				<b>√</b>
	1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)  1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)  Dibutyl terephthalate (DBT)  1,4-benzenedicarboxylic acid, butyl methyl ester (DMT)	Not available 1962-75-0 52392-55-9	20,24%			N.I. None N.I.	
Plasticizers	1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)  1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)  Dibutyl terephthalate (DBT)  1,4-benzenedicarboxylic acid, butyl methyl ester (DMT)  Bis(2-ethylhexyl) adipate (DOA)	Not available  1962-75-0  52392-55-9  103-23-1	20,24%			N.I.  None  N.I.  LT-P1	✓ ✓
Plasticizers	1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)  1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)  Dibutyl terephthalate (DBT)  1,4-benzenedicarboxylic acid, butyl methyl ester (DMT)	Not available 1962-75-0 52392-55-9	20,24%			N.I. None N.I.	



	Soybean oil, epoxidized (ESBO)	8013-07-8				LT-P1	✓
	[carbonato(2-)]hexadeca- hydroxybis(aluminium)hexamagn esium	11097-59-9				LT-P1	✓
	Zinc neodecanoate	27253-29-8				LT-P1	<b>√</b>
	Calcium neodecanoate	27253-33-4				LT-P1	✓
	Triisodecyl phosphite	25448-25-3	0,97%			LT-P1	✓
Heat stabilizers	Neodecanoic acid, zinc salt, basic	84418-68-8				LT-UNK	✓
ricut stabilizers	Hexanoic acid, 2-ethyl-, zinc salt, basic	85203-81-2				LT-1	✓
	Other component of a calcium/zinc heat stabilizing	Proprietary				LT-P1	<b>√</b>
	esystem  ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h finished product also with 2-ethyll	and calcium a eat stabilizati	are essentia on system is	l elements fo	or life. The m	nigration pote	ential of
	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h	and calcium a eat stabilizati	are essentia on system is	l elements fo	or life. The m	nigration pote	ential of
	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h	and calcium a eat stabilizati	are essentia on system is	l elements fo	or life. The m	nigration pote	ential of
	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h finished product also with 2-ethyll	and calcium a eat stabilizati	are essentia on system is rivatives.	l elements fo	or life. The m	nigration pote	ential of
	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h finished product also with 2-ethyll Nanomaterials: No	and calcium a leat stabilizati hexanoate dei	are essentia on system is	l elements fo	or life. The m	nigration poto	ential of cern in the
Reinforcement	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h finished product also with 2-ethyll Nanomaterials: No  Polyethylene terephthalate	and calcium a leat stabilization hexanoate der 25038-59-9 65997-17-3 oring tiles is obglass fibres bo	2,11% otained with	l elements for unknown b	or life. The m ut expected on of a veil t nder (encom	LT-P1 LT-1 hat consists of	ential of cern in the
Reinforcement	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h finished product also with 2-ethyll Nanomaterials: No  Polyethylene terephthalate  Glass oxide, chemicals  The dimension stability of the floo polyethylene terephthalate or of g and processing aids). The size of g	and calcium a leat stabilization hexanoate der 25038-59-9 65997-17-3 oring tiles is obglass fibres bo	2,11% otained with	incorporation 8 and 13 µ	or life. The m ut expected on of a veil t nder (encom	LT-P1 LT-1 hat consists of	ential of cern in the
Reinforcement  Coloration agents	ESBO is a scavenger of hydrochlor plasticizing effect in addition. Zinc the different components of the h finished product also with 2-ethyll Nanomaterials: No  Polyethylene terephthalate  Glass oxide, chemicals  The dimension stability of the floo polyethylene terephthalate or of g and processing aids). The size of g Nanomaterials: No	and calcium a leat stabilization hexanoate der 25038-59-9 65997-17-3 oring tiles is obglass fibres bollass fibres ran 13463-67-7 ust inhalation	2,11%  otained with und with a pees betwee 0,41% during mini	incorporation 8 and 13 µ	or life. The mut expected on of a veil tonder (encomm.	LT-P1  LT-1  hat consists of passed under	ential of cern in the cern in



	Fatty acids, C16-18	67701-03-5				LT-UNK	✓
	Ethanol	64-17-5				BM2	✓
	Polynoxylin	9011-05-6				LT-P1	✓
	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	25322-68-3				LT-UNK	✓
	Poly(oxy-1,2-ethanediyl), .alpha hydroomegahydroxy-, mono-C13- 15-alkyl ethers, succinates	162627-31-8				None	✓
	Magnesium hydroxide	1309-42-8				вм3	✓
	Calcium oxide	1305-78-8				LT-P1	✓
	C,C'-azodi(formamide)	123-77-3				LT-P1	✓
	Aluminium oxide	1344-28-1	3,02%			LT-1	✓
	Zinc oxide	1314-13-2				BM1	✓
	Silicon dioxide	7631-86-9				BM1	✓
Additives, processing	Silica, vitreous	60676-86-0				N.I.	✓
aids, impurities	Other additives, processing aids or impurities	Proprietary				None	✓
						LT-UNK	✓
						вм3	✓
						LT-UNK	✓
						LT-UNK	✓
						LT-P1	✓
						N.I.	✓
							-
	Chemicals in this section consist mof the production input that flows function during recycling. The SVF such in the product because it decided the chemicals amount to 2/3 of chemicals definition gap.	into the production into t	uct's compo C'-azodi(for enign chem his section a	osition and c mamide), a ical during t and are a ta	themicals tha blowing ager he blowing ro sk for further	t do not recont, is not present.	over a sent as efined
	Nanomaterials: No for organic substances, not verified for mineral chemicals						



	Polynoxylin	9011-05-6				LT-P1	✓
	2,2-bis[[(1-oxoallyl)oxy] methyl]- 1,3-propanediyl diacrylate	4986-89-4				LT-UNK	✓
	2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and 2-oxepanone	52404-33-8				None	✓
	(1-methyl-1,2-	42978-66-5				LT-P1	✓
	(octahydro-4,7-methano-1H- indenediyl)bis(methylene) diacrylate	42594-17-2				LT-P1	<b>√</b>
	Oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1				LT-P1	✓
	2-Propenoic acid, reaction products with dipentaerythritol	1384855-91-7	0,32%			LT-UNK	✓
Surface Treatment	2,5-Furandione, polymer with (chloromethyl)oxirane, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 4,4-(1-methylethylidene)bisphenol and oxirane, 2-propenoate	195008-47-0				None	✓
	1,3-Isobenzofurandione, polymer with 1,4-butanediol, (chloromethyl)oxirane, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 4,4'-(1-methylethylidene)bis[phenol] and oxirane, 2-propenoate	297145-34-7				None	<b>√</b>
	1-butylpyrrolidin-2-one	3470-98-2				LT-UNK	✓
						LT-P1	✓
	Other additives, processing aids					LT-UNK	✓
	and impurities	Proprietary				LT-P1	✓
	and imparities					LT-UNK	✓
						LT-UNK	✓
	Mixture of precursors for the production of a complex polymeric structure via curing with photo-initiators that are themselves incorporated in the polymeric structure. two out of 3 red labeled surface treatment precursors rely on bisphenol A as a precursor, an endocrine disrupting chemical. The low level of concern during use is due to the fact that a release is not expectable of bisphenol A as such is not expected in the use phase. In contrast to this, the last red labelled chemical is an likely persistent surfactant that is is expected to maintain mobility after curing.  Nanomaterials: No						



RESOURCE ORIGIN			
Content sourced from ab	undant minerals	48,68%	Mineral fillers and the chlorine part of PVC originate from abundant mineral resources.  Mineral fillers that are coming from recycled materials are counted in the next section
	- Internal post-industrial	22,10%	The recycled content originates from own
Recycled content	- Post-installation	-	production offsets or recovered with the Restart® program and of quality controled
- Post-use source		-	external sources.
Biologically renewable	- Animal	-	No chemicals with a possible animal origin are
content	- Vegetal	0,54%	identified. ESBO has a vegetal origin.

EPEA's rating methodology  $^{(d)}$  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<sup>TM</sup> issue. EPEA believes the data forth herein are accurate as of the date hereof. EPEA makes no warranty with respect thereto and expressly denies all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.

Dr. Jan Christoph von der Lancker Managing Director EPEA Industry

**CEPEA** 

PART OF DREES & SOMMER

Tr. Alain Rivière
Scientific Supervisor





## Legend:

EPEA RA	ATINGS	REACH compliance	GS-LT / GS- BM <sup>(a)</sup>
•	No concern	✓: Substance is listed neither in Annex XIV nor in Annex XVII nor as SVHC and complies with	LT-1: Chemical is found on an authoritative list of the most-toxic chemicals
		European Union Regulation EC 1907/2006 applicable to this article	LT-P1: Chemical may be a serious hazard, but the confidence level is lower
	low concern	XVII or XIV: Substance listed in Annex XVII (Restriction) or Annex XIV (Authorisation) of	<b>LT-UNK</b> : Unknown (no data on List Translator Lists) <b>BM1</b> : Avoid: Chemical of High Concern
•	High concern. Task for material optimization	REACH regulation applicable to this article <b>SVHC</b> : Substance of Very High Concern. Candidate for listing in Annex XIV (Authorization list) of REACH Regulation at a concentration	BM2: Use but search for Safer Substitutes BM3: Use but still opportunity for improvement BM4: Prefer: Safer Chemical BMU: "Unspecified"; insufficient data
•	Risk cannot be verified. Task for knowledge development	above 0.1% -: Not applicable due to missing CAS#	N.I.: (No GS rating): Chemical is not listed in the source of GS and GS-LT ratings

- (a) ReStart® recycling and take-back programme(a)
  https://professionals.tarkett.com/en\_EU/node/restart-recycling-take-back-programme-9721
- (b) Charter for a responsible use of PVC and chlorine management https://www.epea.com/en/news/pvc-chlorine-management
- (c) GreenScreen List Translator Score and GreenScreen Benchmark Score according to 3E Exchange <a href="https://exchange.3eco.com/Substances/Search">https://exchange.3eco.com/Substances/Search</a>
- (d) EPEA MHS V3.0 Development Guidance <a href="https://epea.com/fileadmin/user-upload/2.0">https://epea.com/fileadmin/user-upload/2.0</a> Leistungen/MHS Guidance document V3.0 EPEA 15.09.2023.pdf
- (e) Tarkett Indoor Air Quality Platinum (TIAQP-30-05-01-2023) and Gold (TIAQP-30\_04-01-2024) certificates issued by third party Eurofins Certification Body VOC for products representative of this Tarkett product group