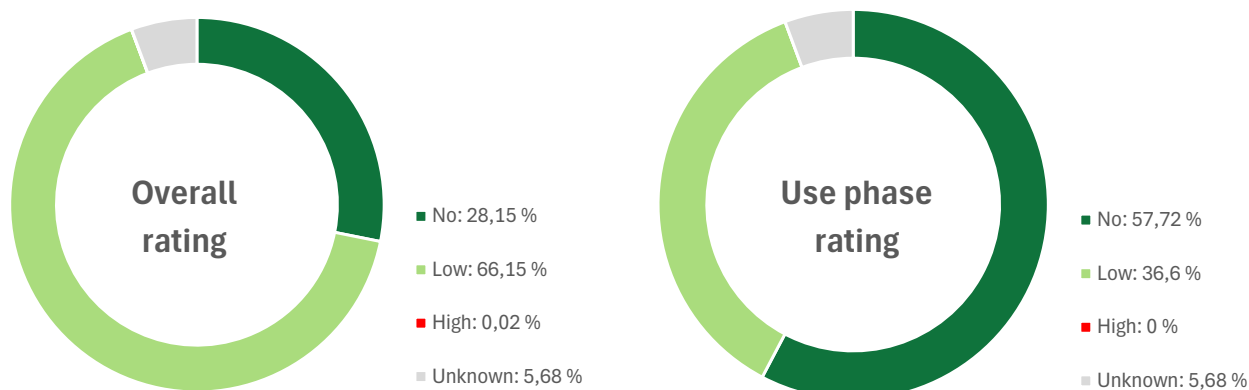


PVC - OMNISPORTS

Company	TARKETT
Product specifications	Omnisports Compact, Omnisport Speed Table Tennis, Omnisports Speed, Omnisports Training, Omnisports PurePlay, Omnisports reference Multi Use, Omnisports Dancefloor, Omnisports Active +
Issue date:	07. May 2025
Expiration date:	06. May 2027
Declaration and evaluation threshold:	At least 100 ppm of the final product
After-use scenario:	ReStart® recycling and take-back programme ^(a)
EPEA Registry No:	45596
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.

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING		GS-LT GS-BM ^(c)	REACH
				USE PHASE	OVERALL		
1. PVC	Polyvinyl chloride	9002-86-2	36,68%			LT-P1	✓
	Proprietary		1,93%			N.I.	-
	Transitional use of PVC is tolerated in durable applications designed with good materials and a collection and recycling program in place ^(b) . 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. The PVC resin products are produced with chlorine originating from membrane-based chloralkali processes according to today best available technologies. Suppliers of the PVC resin products do not disclose the identity of polymerization auxiliaries. Mentioned amounts are estimate maxima based on scientific literature and the knowledge of the polymerization process type. Check Tarkett national websites for Restart® program availability.						
	Nanomaterials: No						
2. Fillers	Calcium carbonate	471-34-1	26,99%			LT-UNK	✓
	Magnesium carbonate	546-93-0				LT-UNK	✓
	Dolomite	16389-88-1				LT-UNK	✓
	Quartz	14808-60-7				LT-1	✓
	Glass, oxide, chemicals	65997-17-3				LT-1	✓
	Fillers consist of pulverized calcium carbonate of virgin and recycled origin as well as of other mineral inclusions conveyed by thermoplastically recycled flooring. Low levels of quartz. No concern in the finished product.						
Nanomaterials: No							
3. Plasticizers	1,2-Cyclohexanedicarbo-xylic acid, diisononyl ester (DINCH)	166412-78-8	25,67%			LT-UNK	✓
	1,4-benzenedicarboxylic acid, butyl methyl ester (MINCH)	52392-55-9				N.I.	✓
	Dibutyl terephthalate (DBT)	1962-75-0				None	✓
	Bis(2-ethylhexyl) adipate (DEHA)	103-23-1				LT-P1	✓
	Tributyl O-acetylcitrate	77-90-7				LT-P1	✓
	Dioctyl terephthalate (DOTP)	4654-26-6				None	✓
	Benzoic acid, C9-11 , C10-rich, branched alkyl esters	131298-44-7				LT-UNK	✓
	DINCH, DEHA and DBT are alternatives to phthalate plasticizers partly approved for food contact applications with high migration limits reflecting a much better safety profile. No concern with DOTP, especially no disruption of developmental pathways observed with metabolic products of DOTP. With DINCH no toxicity is identifiable, especially no mutagenicity, carcinogenicity or reproductive toxicity observed in animal tests. No concern with the synthesis impurity MINCH present at a level < 0.1% in the total composition. DBT is an equivocal sensitizer. The last three mentioned plasticizers sum up to about 3% of the total plasticizer amount.						
Nanomaterials: No							

4. Heat stabilizers	Soybean oil, epoxidized	8013-07-8	1,15%	<div></div>	<div></div>	LT-P1	✓
	Zinc bis(2-ethylhexanoate)	136-53-8		<div></div>	<div></div>	LT-1	✓
	Zinc neodecanoate	27253-29-8		<div></div>	<div></div>	LT-P1	✓
	Hexanoic acid, 2-ethyl-, zinc salt, basic	85203-81-2		<div></div>	<div></div>	LT-1	✓
	Triisodecyl phosphite	25448-25-3		<div></div>	<div></div>	LT-P1	✓
	Calcium neodecanoate	27253-33-4		<div></div>	<div></div>	LT-P1	✓
	Potassium 2-ethylhexanoate	3164-85-0		<div></div>	<div></div>	LT-UNK	✓
	Sodium 2-ethylhexanoate	19766-89-3		<div></div>	<div></div>	LT-UNK	✓
	Neodecanoic acid, zinc salt, basic	84418-68-8		<div></div>	<div></div>	LT-UNK	✓
	<i>ESBO is a scavenger of hydrochloric acid that may be formed during the flooring use period. It has a plasticizing effect in addition. Zinc, an essential trace element for life, belongs to a calcium/zinc based heat stabilizing system. The migration potential of the different components of the heat stabilization system is unknown but expected low. No concern in the finished product.</i> <i>Nanomaterials: No</i>						
5. Reinforcement	Glass, oxide, chemicals	65997-17-3	1,41%	<div></div>	<div></div>	LT-1	✓
	<i>A glass fibre veil enhances the dimension stability. It is encapsulated in the flooring matrix. The glass fibre based veil consists of fibres with a diameter of 13 µm. No information on the specific binder composition (About 25% of the reinforcement system encompassed) but no concern seen.</i> <i>Nanomaterials: No</i>						
6. Coloration agents	Titanium dioxide	13463-67-7	0,50%	<div></div>	<div></div>	LT-1	✓
	Carbon black	1333-86-4		<div></div>	<div></div>	BM1	✓
	<i>Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Other pigments are involved each at a level below the declaration limit.</i> <i>Nanomaterials: No for titanium dioxide, not verified, yet for carbon black</i>						

8. Additives, processing aids, impurities	Magnesium hydroxide	1309-42-8	5,22%			BM3	✓
	Fatty acids, C16-18	67701-03-5				LT-UNK	✓
	Polyethylene terephthalate	25038-59-9				LT-P1	✓
	2,2-bis[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	4986-89-4				LT-UNK	✓
	C,C'-azodi(formamide)	147-14-8				LT-UNK	✓
	Calcium oxide	1305-78-8				LT-P1	✓
	Oxirane, 2-methyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	204336-40-3				LT-UNK	✓
	Polynoxylin	9011-05-6				LT-P1	✓
	Urea, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	25036-13-9				LT-UNK	✓
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	25322-68-3				LT-UNK	✓
	2-(2-butoxyethoxy)ethanol	112-34-5				LT-P1	✓
	Propan-2-ol	8013-70-5				LT1	✓
	Ethanol	64-17-5				BM2	✓
	Zinc oxide	91315-44-5				N.I.	✓
	Aluminium oxide	90669-62-8				LT-1	✓
	Silicon dioxide	7631-86-9				BM1	✓
	Other additives, processing aids, impurities	Proprietary				BM3	✓
						BM2	✓
						LT-UNK	✓
						LT-UNK	✓
						LT-UNK	✓
						N.I.	-
Chemicals in this section consist of 1.) formulation auxiliaries for coloration agents, 2.) chemicals of the recycled input that do not recover functionality after recycling like a series of chemicals originating from chemically defined surface treatments and not present as such but as polymer after curing in the former use of materials, 3.) decomposition products of the foaming agent azodicarbonamide and foaming reaction activator and 4.) chemical components that are not identified by CAS number other than PVC polymerization auxiliaries and remain object of efforts for increasing the chemical definition until the renewal of this document. Nanomaterials: Not verified							

9. Surface Treatment	2,2-bis[[[1-oxoallyl]oxy]methyl]-1,3-propanediyl diacrylate	4986-89-4	0,46%			LT-UNK	✓
	A mixture mainly based on: 2,3-dihydro-6-(2-hydroxy-2-methyl-1-oxopropyl)-1,1,3-trimethyl-3-[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]-1H-indene; 2,3-dihydro-5-(2-hydroxy-2-methyl-1-oxopropyl)-1,1,3-trimethyl-3-[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]-1H-indene	163702-01-0				None	✓
	Oxirane, 2-methyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	204336-40-3				LT-UNK	✓
	Polynoxylin	9011-05-6				LT-P1	✓
	2-hydroxy-2-methylpropiophenone	7473-98-5				LT-P1	✓
	Triethylamine	121-44-8				LT-UNK	✓
	Silicon dioxide	7631-86-9				BM1	✓
	Proprietary					LT-P1	✓
	Other precursors or components of a polyacrylicurethane polymer structure	Proprietary				LT-P1	✓
						LT-UNK	✓
						None	✓
						LT-UNK	✓
						LT-UNK	✓
				LT-P1	✓		
Complex macropolymer based on polyurethane acrylate that is UV cured during application. It fulfils a double function as protection of the flooring against abrasion during use and barrier against migration of mobile chemicals to the indoor environment ^(e) . Most of chemicals listed in this section are not present as such in the finished product anymore and have lost properties that lead to specification for hazard labelling of raw materials. While recycling within the ReStart® process, surface treatment chemicals lose their function and contribute as a filler without detrimental impacts to the safety properties of flooring products of the next generation.							
Nanomaterials: Not verified							

RESOURCE ORIGIN			
Content sourced from abundant minerals		35,12%	Calcium carbonate and the chlorine part of the polymer PVC originate from abundantly available resources. Calcium carbonate conveyed with recycled content is counted there.
Recycled content	- Internal post-industrial	25,33%	The recycled content originates from materials recovered from former flooring applications.
	- Post-installation	-	
	- Post-use source	-	
Biologically renewable content	- Animal	-	No materials in the production are identifiable with an animal origin.
	- Vegetal	1,39%	

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™ 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 Lancken
Managing Director EPEA Industry







Dr. Alain Rivière
Scientific Supervisor



EPEA
PART OF DREES & SOMMER

Legend:

EPEA RATINGS	REACH compliance	GS-LT / GS- BM ^(a)
 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 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 REACH regulation applicable to this article	LT-UNK: Unknown (no data on List Translator Lists)
 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%	BM1: Avoid: Chemical of High Concern BM2: Use but search for Safer Substitutes BM3: Use but still opportunity for improvement BM4: Prefer: Safer Chemical
 Risk cannot be verified. Task for knowledge development	- : Not applicable due to missing CAS#	BMU: "Unspecified"; insufficient data 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

<https://exchange.3eco.com/Substances/Search>

(d) EPEA MHS V3.0 Development Guidance

https://epea.com/fileadmin/user_upload/2.0_Leistungen/MHS_Guidance_document_V3.0_EPEA_15.09.2023.pdf

(e) Indoor Air Comfort® GOLD certified by Eurofins (IACG-30-04-02-2024)

<https://www.eurofins.com/consumer-product-testing/industries/construction-building/indoor-air-comfort/indoor-air-comfort-certification/>