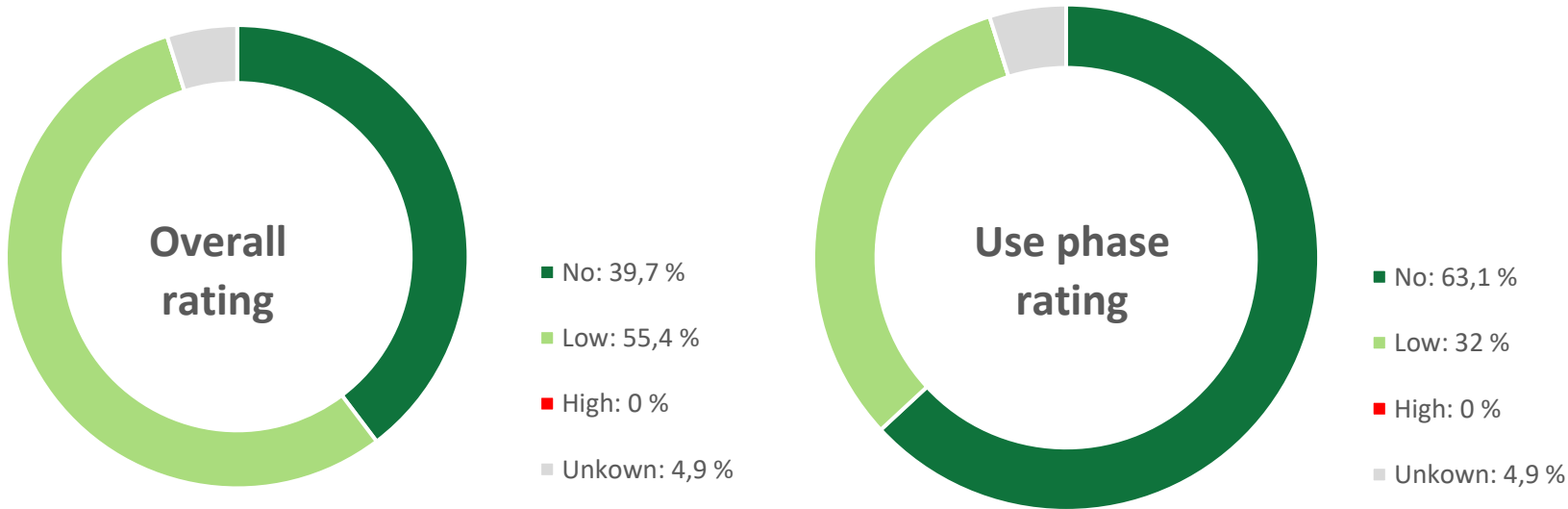


iD COMFORT ACOUSTIC

Company	TARKETT
Product specifications	iD Comfort Acoustic
Issue date:	12. February 2025
Expiration date:	11. February 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:	40602
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.

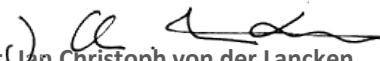
The benefit and risk analysis follows a qualitative and quantitative breakdown of the product’s chemical composition from the chemical composition of raw materials, a reconstruction of chemical transformation pathways and an anticipation of the chemical’s behaviour during the intended after-use processing. 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		
PVC	Polyvinyl chloride	9002-86-2	≤ 37,1%			LT-P1	✓
	Polymerization additives	Proprietary	≤ 2%			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						
Fillers	Calcium carbonate	471-34-1	≤ 45%			LT-UNK	✓
	Magnesite (Mg(CO3))	546-93-0				LT-UNK	✓
	Dolomite	16389-88-1				LT-UNK	✓
	Quartz (SiO2)	14808-60-7				LT-1	✓
	Glass, oxide, chemicals	65997-17-3				LT-1	✓
	Fillers consist of pulverized stones (calcium carbonate, dolomite) of virgin and recycled origin as well as of other mineral inclusions conveyed by recycled flooring. Low levels of quartz. No concern in the finished product, also with silicon carbide.						
Nanomaterials: No							
Plasticizers	1,2-Cyclohexanedicarboxylic	166412-78-8	≤ 21,7%			LT-UNK	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH)	Not available				N.I.	✓
	Dibutyl terephthalate (DBT)	1962-75-0				None	✓
	1,4-benzenedicarboxylic acid, butyl methyl ester (MBT)	52392-55-9				N.I.	✓
	Bis(2-ethylhexyl) adipate (DEHA)	103-23-1				LT-P1	✓
	Diocetyl terephthalate (DOTP,	4654-26-6				None	✓
	Tributyl O-acetylcitrate	77-90-7				LT-P1	✓
	Alternatives to phthalate plasticizers partially approved for food contact applications with high migration limit reflecting a much better safety profile. No concern with DEHT, especially no disruption of developmental pathways observed with metabolic products of DEHT. With DINCH no toxicity is identifiable. DBT is an equivocal sensitizer. No concern with the synthesis impurities which amounts together to < 0.1% in the total composition.						
Nanomaterials: No							

Heat stabilizers	Soybean oil, epoxidized	8013-07-8	≤ 1%			LT-P1	✓	
	Zinc neodecanoate	27253-29-8				LT-P1	✓	
	Zinc oxide	91315-44-5				N.I.	✓	
	Triisodecyl phosphite	25448-25-3				LT-P1	✓	
	Neodecanoic acid, zinc salt,	84418-68-8				LT-UNK	✓	
	Calcium neodecanoate	27253-33-4				LT-P1	✓	
	Other heat stabilizer chemical	Proprietary				LT-1	✓	
	<i>ESBO is a scavenger of hydrochloric acid that may be formed during the flooring use period. It has a plasticizing effect in addition.</i>							
<i>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>								
Reinforcement	Glass, oxide, chemicals	65997-17-3	≤ 2%			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) but no concern seen.</i>							
<i>Nanomaterials: No</i>								
Coloration agents	Titanium dioxide	13463-67-7	≤ 0,6%			LT-1	✓	
	<i>Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Other pigments involved in inks are present at a level below the declaration limit of 100 ppm.</i>							
<i>Nanomaterials: No</i>								
Additives, processing aids, impurities	Ethanol	64-17-5	≤ 5,5%			BM2	✓	
	2-(2-butoxyethoxy)ethanol	112-34-5				LT-P1	✓	
	Zirconium dioxide	1314-23-4				LT-P1	✓	
	C,C'-azodi(formamide)	147-14-8				LT-UNK	✓	
	Zinc oxide	91315-44-5				N.I.	✓	
	Aluminium hydroxide	21645-51-2				BM2	✓	
	Additives, processing aids, impurities	Additives, processing aids, impurities		Proprietary			N.I.	-
							LT-P1	✓
							LT-P1	✓
							LT-UNK	✓
							LT-P1	✓
							LT-UNK	✓
							LT-UNK	✓
							BM4	✓
					<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. No concern in the final product.</i>			
	<i>Nanomaterials: Not verified, yet</i>							

Surface Treatment	2,2-bis[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	4986-89-4	≤ 0,5%			LT-UNK	✓
	Silicon dioxide	7631-86-9				BM1	✓
	Polynoxylin	9011-05-6				LT-P1	✓
	Other monomers	Proprietary				None	✓
						LT-P1	✓
						LT-UNK	✓
						LT-UNK	✓
						LT-P1	✓
	<i>Complex coating macropolymer based on polyacrylate chemistry that is UV cured during application and a monomer which substitution is a task for future innovation. The surface treatment fulfils a double function as protection of the flooring against abrasion during use and barrier against migration of mobile chemicals to the indoor environment. Monomers 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 lose their function and contribute as a filler without detrimental impacts to the safety properties of flooring products of the next generation.</i>						
	<i>Nanomaterials: No</i>						
RESOURCE ORIGIN							
Content sourced from abundant minerals			38,7%				
Recycled content	- Internal post-industrial		32,8%				
	- Post-installation		-				
	- Post-use source		-				
Biologically renewable content	- Animal		-				
	- Vegetal		0,35%				

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

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 LT-UNK : Unknown (no data on List Translator Lists)
● low concern	XVII or XIV : Substance listed in Annex XVII (Restriction) or Annex XIV (Authorisation) of REACH regulation applicable to this article	BM1 : Avoid: Chemical of High Concern 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%	BM3 : Use but still opportunity for improvement BM4 : Prefer: Safer Chemical BMU : "Unspecified"; insufficient data
● Risk cannot be verified. Task for knowledge development	- : 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
<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) VOC regulation compliance
 - ✓ AgBB 2024
 - ✓ Belgian VOC regulation
 - ✓ French regulation of April and My 2009 DEVP0908633A and DEVP0910046A (CMR components)
 - ✓ French regulations DEVL 1101903 D and DEVL1104875 A 1101903D.