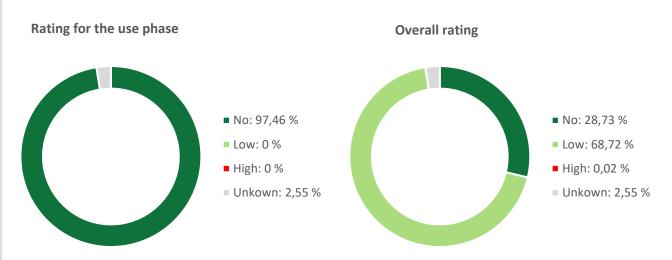


Company:	TARKETT			
Product specifications	Surface wall, HO Wallgard			
Issue date:	11. October 2024			
Expiration date:	10. October 2026			
Evaluation and declaration threshold:	At least 100 ppm of the final product			
After-use scenario:	Tarkett proposes to take back your installation residues and your products after use, thanks to the <u>TARKETT ReStart® Program</u> .			
	Check Tarkett national websites for Restart program availability			
EPEA Registry No:	40539.2			
MHS Version:	3.0			
Chemi	cals 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.
- overally 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, and 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.

	CHEMICAL	CAS		EPEA RATING		GS-LT		
FUNCTION			CONTENT	Use phase	Overall	GS-BM ^(a)	REACH	
PVC	Polyvinylchloride	9002-86-2	< 40%			LT-P1	~	
	PVC polymerization additives ^(b)	Proprietary ^(c)	< 0.4%			N.I.	-	
	Transitional use of PVC is tolerated in durable applications designed with good materials and a collection and recycling program i place ^(d) . Vinyl chloride content is below 1 ppm in purchased products. 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 no disclose the identity of polymerization auxiliaries. Mentioned amounts are estimate maxima based on scientific literature and the knowledge of the polymerization process type. Nanomaterials: No.							
	Calcium carbonate	471-34-1	-			LT-UNK	\checkmark	
	Magnesium carbonate	546-93-0				LT-UNK	\checkmark	
	Dolomite	16389-88-1				LT-UNK	\checkmark	
	Aluminium trihydrate	1333-84-2	< 40%			LT-UNK	\checkmark	
Fillers	Crystalline silica - Quartz type ^(b)	14808-60-7				LT-1	\checkmark	
	Aluminium oxide ^(b)	90669-62-8				None	\checkmark	
	Glass fibers ^(b)	65997-17-3				LT-UNK	\checkmark	
	Diiron oxide	1309-37-1				BM1	✓	
	Undefined impurities	Not available						
	Fillers consist of pulverized calcium carbonate of virgin origin with particles with a mean particle size of 10 and 30 µm respectively and the flame retardant aluminium trihydrate. Calcium carbonate and glass fibres originating from recycled flooring recover a function of filler. Low levels of quartz contained in virgin calcium carbonate raw materials. Nanomaterials: No							
	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH)	166412-78-8	< 13%			LT-UNK	\checkmark	
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester (MINCH) ^(b)	Not available				N.I.	~	
Plasticizers	Alternative to phthalate plasticizers partially approved for food contact application with high migration limit reflecting a much better safety profile. No toxicity identifiable, especially no mutagenicity, carcinogenicity or reproductive toxicity observed in animal tests. No concern with synthesis impurities MINCH irrespective of their amount <0.1% in the total composition. Nanomaterials: No							
	Soybean oil, epoxidized (ESBO)	8013-07-8				LT-P1	~	
	Other components of a calcium/zinc heat	Proprietary	< 5.3%			LT-UNK	~	
Heat stabilizers	stabilizer components					LT-P1	~	
	ESBO is a scavenger of hydrochloric acid that may be formed during the production and the flooring use period. It has additionally a plasticizing effect. The migration potential of hazardous components of the heat stabilization system is expected low if not even absendue to absence of volatility. Nanomaterials: No							

ELINCTION	CHEMICAL	CAS	CONTENT	EPEA RATING		GS-LT GS-BM ^(a)	REACH	
FUNCTION				Use phase	Overall			
	Titanium Dioxide	13463-67-7				LT-1	\checkmark	
	Carbon Black	61512-59-2				BM1	\checkmark	
	Pigment Yellow 95	5280-80-8	_			LT-P1	\checkmark	
	Pigment Yellow 110	5590-18-1	< 3%			LT-P1	\checkmark	
	Pigment Blue 15:1	12239-87-1				LT-UNK	\checkmark	
	Pigment Green 7	1328-53-6				LT-UNK	\checkmark	
Coloration	Pigment Red 144	5280-78-4				LT-UNK	\checkmark	
agents	Pigment Red 254	84632-65-5				LT-UNK	\checkmark	
	Copper containing pigments are not recommended in fire. No issue under normal conditions of use and in t Chlorinated pigments are seen problematic because supported by the charter for a responsible use of PVC Nanomaterials: No	the target ReStar their demand co	t [®] recycling scene ontributes to stab	ario.	2		-	
	Fumes, silica	69012-64-2	< 1.2%			LT-P1	\checkmark	
	Aluminium orthophosphate	7784-30-7				LT-UNK	\checkmark	
Other	Zirconium dioxide	1314-23-4				LT-UNK	\checkmark	
additives,	Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3				LT-P1	\checkmark	
processing	2-butoxyethanol	111-76-2				LT-P1	\checkmark	
aids and	Other additives	Proprietary				N.I.	-	
impurities	Additives and formulation auxiliaries that have a function in the product or had a function to produce raw materials. No concern seen. At most 1% of the total product composition is not defined in this functional category. For the other identified components, no significant hazards and no risk expectable. Nanomaterials: No							
Surface		Proprietary	< 1%			LT-UNK	\checkmark	
	Precursors of the surface treatment					LT-P1	\checkmark	
-						N.I.	-	

THEREOF			
Content source	ed from abundant minerals	< 66%	The filler calcium carbonate, the flame retardant aluminium trihydrate and the chlorine of PVC originate from abundant mineral resources.
Recycled	 Internal post-industrial source (Reprocessed own production output) 	25.5%	
content	- Post-installation / Pre-use source	-	The HO Wall range is produced exclusively with virgin raw materials.
	- Post-use source	-	
Biologically renewable content	- Animal	-	No chemical with a possible animal origin is identified.
	- Vegetal	< 4.1%	Epoxydized soybean oil is of vegetal origin.

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 (see further <u>MHS V3.0 Development Guidance</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:

EPEA RATINGS	REACH compliance:	GS-LT ^(b)	GS- BM ^(b)
No concern Low concern High concern – Task for material optimization Risk cannot be verified Task for knowledge development	 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. 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 	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)	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 dat: N.I. (No GS rating): Chemical is not listed in the source of GS and GS-LT ratings

(a) GreenScreen List Translator Score and GreenScreen Benchmark Score according to <u>3E Exchange</u>

(b) Component originating either from the natural resource or from virgin or recycled raw material without functionality in the product's context.

- (c) Proprietaries can be due to the decision of the producer or result from non-communication of the full composition of used raw materials either to producer, or to EPEA, or both.
- (d) Please refer to EPEA's position on PVC and chlorine management