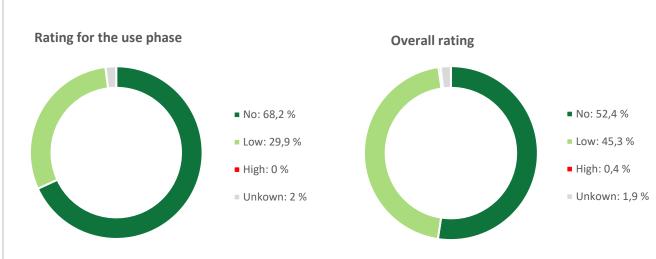


Company:	TARKETT
Product specifications	Essence Gluedown 30, Essence Gluedown 55, iD Inspiration 30, iD Inspiration 55, iD Inspiration 70HT, iD Mixonomi
Issue date:	11. October 2024
Expiration date:	10. October 2026
Evaluation and declaration threshold:	At least 100 ppm of the final product
After-use 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:	40595
MHS Version:	3.0
Chemio	als 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, 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.

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING		GS-LT	REACH	
lonenon		Cho	CONTENT	Use phase	Overall	GS-BM ^(a)	neact	
	Polyvinylchloride	9002-86-2	< 60.4%			LT-P1	~	
	Acetic acid ethenyl ester, polymer with chloroethene	9003-22-9	< 0.7%			LT-UNK	~	
	PVC polymerization additives ^(b)	Proprietary ^(c)	< 0.6%			N.I.	-	
PVC	Transitional use of PVC is tolerated in durable applications designed with good materials and a collection and recycling program 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 on to disclose the identity of polymerization auxiliaries. Mentioned amounts are estimate maxima based on scientific literature are the knowledge of the polymerization process type. The small amount of involved vinyl chloride copolymer is associated with typically higher residual vinyl chloride amounts in responsible of PVC and chlorine management, despite the fact that a maximum content of this monomer in concerned LVT Gluedow product specifications is well below 1 ppm. Nanomaterials: No.							
	Calcium carbonate	471-34-1				LT-UNK	\checkmark	
	Dolomite	16389-88-1	< 51%			LT-UNK	~	
	Crystalline silica - Quartz type ^(b)	14808-60-7				LT-1	~	
Fillers	Fillers consist of pulverized calcium carbonate c							
	Nanomaterials: Marginally likely 1,2-Cyclohexanedicarboxylic acid, diisononyl ester 1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-	166412-78-8	< 12.4%			LT-UNK	~	
	iisononyl ester	Not available						
	Bis(2-ethylhexyl) adipate	103-23-1				LT-P1	~	
Plasticizers	Dibutyl terephthalate	1962-75-0				None	~	
	Alternative to phthalate plasticizers partially ap safety profile. DINCH is produced by hydroger mutagenicity, carcinogenicity or reproductive synthesis impurities MINCH present at a level s Nanomaterials: No Soybean oil, epoxidized Zinc distearate	nation of DINP with toxicity observed in	thus modified pro animal tests. DB	perties. N	o toxicity i	dentifiable, e	especially	
	1,3-diphenylpropane-1,3-dione	120-46-7				LT-UNK	\checkmark	
	Triisodecyl phosphite	25448-25-3	< 2.4%			LT-P1	✓	
	Other components of a calcium/zinc heat					LT-P1	 ✓ 	
eat stabilizers	stabilizer components	Proprietary	ary			LT-UNK	\checkmark	
	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 absent due to absence of volatility and of no toxicological concern. Nanomaterials: No							
Reinforcement	Glass veil	65997-17-3				LT-UNK	\checkmark	
	Binder	Proprietary				LT-UNK	\checkmark	
	A glass fibre veil enhances the dimension stabil based veil consists of glass fibres with a diam concern seen in the use phase and recycling pro Nanomaterials: No	eter exceeding 13 μ		-	-	-		

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA R/ Use phase	ATING Overall	GS-LT GS-BM ^(a)	REACH
	Titanium Dioxide	13463-67-7	< 1.6%			LT-1	\checkmark
Coloration agents	The labelling of titanium dioxide with the H351 form containing 1 % or more of particles with a for the production of LVT Gluedown. Potential raw materials not excluded, though. No concer Other involved pigments are each below the de Nanomaterials: No	erodynamic diameto health issue related n in the finished pro	er ≤ 10 μm. This α to dust inhalatic duct due to enca	loes not app on during mi	ly to titani ning/produ	um dioxide p iction of tita	roducts use
	Vinyl acetate ethylene, copolymer	24937-78-8				LT-UNK	\checkmark
	Fatty acids, C16-18	67701-03-5	_			LT-UNK	√
	Propane-1,2-diol	57-55-6	-			LT-P1	√
	Aluminium hydroxide	21645-51-2	-			BM2	✓
	Aluminium oxide	90669-62-8	-			None	✓
		50005 02 0	_			LT-UNK	✓
			< 4.8%			LT-UNK	· · · · · · · · · · · · · · · · · · ·
Other additives,						LT-P1	· ·
processing aids	Other additives and processing aids	Proprietary				BM1	
and impurities	other additives and processing days	rioprictary	the product or had a fu al group. For identified			LT-P1	· ·
and impundes						LT-UNK	· · ·
						N.I.	
	reaction products with 5-isocyanato-1- (isocyanatomethyl)-1,3,3- trimethylcyclohexane and polyethylene- polypropylene glycol ether with	187348-14-7				None	~
	trimethylolpropane (3:1) acrylate	57472 (0.4	_				✓
	Oxybis(methyl-2,1-ethanediyl) diacrylate Hexamethylene diacrylate	57472-68-1 13048-33-4	_			LT-P1 LT-P1	✓ ✓
	(octahydro-4,7-methano-1H- indenediyl)bis(methylene) diacrylate	42594-17-2	_			LT-P1	√
	Polynoxylin	9011-05-6				LT-P1	√
	Paraffin waxes and Hydrocarbon waxes	9083-41-4	< 1.2%			LT-UNK	√
	Paraffin waxes (petroleum), hydrotreated	64742-51-4	-			LT-P1	✓
Surface Treatment	Poly(oxy-1,4-butanediyl), .alpha[(4- benzoylphenoxy)acetyl]omega[[2-(4- benzoylphenoxy)acetyl]oxy]-	515136-48-8				LT-P1	~
	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl- 4-hydroxyphenyl)propionate)	6683-19-8				LT-UNK	~
	Tris(2,4-ditert-butylphenyl) phosphite	31570-04-4				LT-UNK	\checkmark
	Silicon dioxide	7631-86-9				BM1	✓
	Other precursors of the surface treatment	Proprietary				None	✓
						LT-UNK	√
						N.I.	-
	Complex coating macropolymer based on poly protection of the flooring against abrasion duri				-	-	-

Nanomaterials: Not verified

THEREOF					
Content sourced from abundant minerals		40 - 55%	Calcium carbonate and the chlorine of PVC originate from abundant mineral resource.		
Recycled content	 Internal post-industrial source (Reprocessed own production output) 	40 - 55%	Post-industrial recycled content originating from the production		
	- Post-installation / Pre-use source	-	of LVT Gluedown is involved in its production.		
	- Post-use source	-			
Biologically renewable	- Animal	-	No additive with an animal origin is identifiable. Soybean oil, epoxidized and minor other additive have both an animal or a		
content	- Vegetal	< 0.8%	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^{M} 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 Möste Partner & Managing Director



Dr. Alain Rivière

Scientific Supervisor

Legend:

PEA 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 data 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

(d) Please refer to EPEA's position on PVC and chlorine management

producer, or to EPEA, or both.