

STARFLOOR CLICK

Issued to:	TARKETT
Product specifications:	Starfloor Click Solid 30 / 55
Issue date:	15.12.2022
Expiration date:	14.12.2024
Evaluation threshold:	At least 100 ppm of the final product
After-use scenario:	TARKETT ReStart® Program
EPEA Registry No:	40570
MHS Version:	2.0

FUNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(b)	REACH
PVC	PVC	9002-86-2	< 34%		Transitional use of PVC is tolerated in durable applications designed with good materials and a collection and recycling program in place(a). 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. Check Tarkett national websites for Restart program availability.	LT-P1	✓
	Proprietary	Proprietary 3	< 1,8%			N.I.	-
Fillers	Calcium carbonate	13397-25-6	< 53%		Fillers consist of pulverized calcium carbonate of virgin origin with processing additives. Low levels of quartz. No concern in the finished product.	None	✓
	Magnesium Carbonate	546-93-0				LT-UNK	✓
	Stearic acid	646-29-7				N.I.	✓
	Crystalline silica - Quartz type	14808-60-7				LT-1	✓
	Proprietary	Proprietary 3				N.I.	-
Plasticizers	Terephthalic acid, dioctyl ester (DEHT)	6422-86-2	< 10%		Alternatives to phthalate plasticizers. DINCH is produced by hydrogenation of DINP with thus modified properties. No toxicity identifiable, especially no mutagenicity, carcinogenicity or reproductive toxicity observed in animal tests. Capacity of MINCH (primary metabolic product of DINCH) to interfere with the metabolism and differentiation of adipocytes in in-vitro experiments was assumed in 2015 but convincingly refuted in more recent scientific publications. No concern with DEHT, especially no disruption of developmental pathways observed with metabolic products of DEHT.	LT-UNK	✓
	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH)	166412-78-8				LT-UNK	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester* (MINCH)	Not available				N.I.	✓
Reinforcement	Glass fibre	65997-17-3	< 1.6%		The length of glass fibres exceeds 10 µm. No contribution of the formaldehyde-based binder to formaldehyde emissions of the flooring product. No concern seen.	LT-UNK	✓
	Urea, polymer with formaldehyde	9011-05-6				LT-P1	✓
	Proprietary	Proprietary 3				N.I.	-
Stabilizers	Soybean oil, epoxidized	8013-07-8	< 2.5		ESBO is a scavenger of hydrochloric acid that may be formed during the flooring use period. It has a plasticizing effect in addition. Other components of the heat stabilization belong to a calcium/zinc based system. Migration potential of the different components of the heat stabilization system is unknown but no concern in case of migration.	LT-P1	✓
	Dibenzoylmethane	120-46-7				LT-UNK	✓
	Proprietary	Proprietary 2				LT-P1	✓
		Proprietary 3				LT-UNK	✓
						None	✓
			N.I.	-			

FUNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(b)	REACH	
Pigments & Inks	Titanium dioxide	13463-67-7	< 0.8%		Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Pigments labelled red either contain copper or are chlorinated organic compounds. Copper containing pigments are not recommended in the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated pigments are not recommended for reasons explained in "EPEA's position on PVC and chlorine management" ^(a) .	LT-1	✓	
	Carbon Black	61512-59-2				BM1	✓	
	Pigment Yellow 183	65212-77-3				LT-UNK	✓	
	Pigment Red 254	84632-65-5				LT-UNK	✓	
	Proprietary	Proprietary 2					LT-P1	✓
							LT-UNK	✓
	Proprietary 3					None	✓	
				N.I.	-			
Surface Treatment	Dipropylene glycol diacrylate	57472-68-1	0,24%		Complex coating macropolymer based on polyurethane and acrylic monomers that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials.	LT-UNK	✓	
	Hexane, 1,6-diisocyanato-, homopolymer, 2-hydroxyethyl acrylate- and propylene glycol monoacrylate-blocked	1392411-89-0				LT-P1	✓	
	Tricyclo[5.2.1.0 _{2,6}]decane dimethanol diacrylate	42594-17-2				None	✓	
	Fumed amorphous silicium dioxide	69012-64-2				LT-P1	✓	
	Proprietary	Proprietary 2				None	✓	
THEREOF:								
Content sourced from abundant minerals			< 73%	Mineral fillers and the chlorine part of PVC are most predominant contributors to this figure.				
Recycled content	- Internal post-industrial source (Reprocessed own production output)		≤35.5%	Starfloor Click is produced exclusively with virgin raw materials and defined recycled materials that have the same composition as the virgin share. The content with post-installation residues taken back in the frame of the ReStart® program amounts to < 1%.				
	- Post-installation / Pre-use source							
	- Post-use source							
Biologically renewable content	- Animal		-	No chemical with a possible animal origin is identified.				
	- Vegetal		< 2%	Epoxydized Soy bean oil and other quantitatively minor additives have a 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 [MHS development Guidance V2.0](#)). 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 Möslé
Partner & Managing Director


Dr. Alain Rivière
Scientific Supervisor

 **EPEA**
PART OF DREES & SOMMER

Legend:

EPEA RATING:

-  No concern
-  Moderate concern
-  High concern – Task for material optimization
-  Unknown concern - Task for knowledge development

REACH compliance:

- ✓: Substance is listed neither in Annex XIV nor in Annex XVII nor as SVHC or 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

GS-LT^(b)

- 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)

GS- BM^(b)

- 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) Please refer to [EPEA's position on PVC and chlorine management](#)

(b) GreenScreen List Translator Score and GreenScreen Benchmark Score according to [Toxnot](#)

Proprietary 1, 2 or 3: Distinguishing between owners of information (see [MHS development Guidance V2.0](#))
