

SAFETRED

Issued to: TARKETT

Product specifications

SERENITY, DESIGN, DESIGN ACOUSTIC, DESIGN LOOSELAY, WOOD BUS, ION CONTRAST,

ION CONTRAST ACOUSTIC, ION CONTRAST LOOSELAY, ION LINEN, ION LINEN ACOUSTIC, ION LINEN LOOSELAY, RAIL, SPECTRUM, SPECTRUM ACOUSTIC, SPECTRUM LOOSELAY, SPECTRUM BUS, UNIVERSAL, UNIVERSAL ACOUSTIC, UNIVERSAL LOOSELAY, UNIVERSAL

PLUS (R11), UNIVERSAL R12, UNIVERSAL BUS

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: 39944.2

MHS Version: 2.0

UNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^{(b}	REACH
PVC	PVC*	9002-86-2	< 50%		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	✓
	Polymerization additives	Proprietary 3	< 2.5%			N.I.	-
Fillers	Calcium carbonate*	13397-25-6			Fillers consist of pulverized stones (calcium carbonate, dolomite and kaolin) 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.	None	✓
	Dolomite*	16389-88-1				LT-UNK	✓
	Aluminium oxide*	90669-62-8	< 40%			None	✓
	Silicon carbide*	409-21-2				LT-1	✓
	Kaolin*	95077-05-7				N.I.	✓
	Aluminium trihydrate*	1333-84-2				LT-UNK	✓
	Glass fibre veil*	65997-17-3				LT-UNK	✓
	Crystalline silica - Quartz type*	14808-60-7				LT-1	✓
	Proprietary	Proprietary 3				N.I.	-
Stabilizers	Soybean oil, epoxidized*	8013-07-8	< 1.8%		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.	LT-P1	✓
	Triisodecyl phosphite*	25448-25-3				LT-P1	✓
	Zinc 2-ethylcaproate*	136-53-8				LT-P1	✓
	Proprietary*	Proprietary 2				LT-UNK	✓
						LT-P1	✓
		Proprietary 3				N.I.	-

FUNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^{(b}	REACH
	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester* (DINCH)	166412-78-8	< 30%		Alternatives to phthalate plasticizers added directly or in form of recycled	LT-UNK	√
	Terephthalic acid, dioctyl ester* (DEHT)	6422-86-2			flooring. Recycled plasticizers recover their original function. DINCH is produced by hydrogenation of DINP	LT-UNK	✓
	Dibutyl terephthalate* (DBT)	1962-75-0			with thus modified properties. No toxicity identifiable, especially no	None	✓
	1,2,3-Propanetricarboxylic acid, 2- (acetyloxy)-, tributyl ester*	77-90-7			mutagenicity, carcinogenicity or reproductive toxicity observed in	LT-P1	✓
	Bis(2-ethylhexyl)adipate* (DEHA)	103-23-1			animal tests. Capacity of MINCH (primary metabolic product of DINCH)	LT-P1	✓
Plasticizers	Terephthalic acid, butyl methyl ester* (MBT)	52392-55-9			to interfere with the metabolism and differentiation of adipocytes in in-vitro experiments was assumed in 2015 but	N.I.	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester* (MINCH)	Not available			convincingly refuted in more recent scientific publications. No concern with DEHT, especially no disruption of developmental pathways observed with metabolic products of DEHT. DBT is an equivocal sensitizer. No concern expected with DBT and its synthesis impurity MBT.	N.I.	✓
	Glass fibre	65997-17-3	< 1.3%			LT-UNK	✓
	Polyvinyl acetate	93196-02-2			The length of glass fibres exceeds 10	N.I.	✓
Reinforcement	Urea, polymer with formaldehyde	9011-05-6			µm. No contribution of the formaldehyde-based binder to formaldehyde emissions of the flooring product. No concern seen.	LT-P1	✓
Remorecinent	Urea, melamine, formaldehyde resin	25036-13-9				LT-UNK	✓
	Proprietary	Proprietary 3	_			N.I.	-
	Titanium Dioxide*	13463-67-7			Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Copper containing pigments are not recommended in the	LT-1	✓
	Pigment Blue 15	147-14-8 12239-87-1	< 2.5%			LT-UNK	✓
	Pigment Yellow 93	5580-57-4				LT-P1	✓
Pigments	Pigment Red 144	5280-78-4			context of PVC because of the catalytic	LT-UNK	√
	Pigment Green 7	1328-53-6			activity of copper for the formation of dioxins in case of fire. Chlorinated	LT-UNK	✓
	Pigment Red 101	1309-37-1			pigments are not recommended for reasons explicated in "EPEA's position on PVC and chlorine management"(a).	BM1	✓
	Pigment Black 11	1317-61-9			They are labelled red for these reasons, even if they are each well below the declaration limit of 100 ppm.	BM-1	✓
	Pigment Yellow 42	51274-00-1				LT-UNK	✓
	Pigment Violet 37	17741-63-8				LT-UNK	✓
	Azodicarbonamide	123-77-3			Chemicals in this section consist of the foaming agent azodicarbonamide and foaming reaction activator. Azodicarbonamide is not present as such anymore after the foaming reaction. Other chemicals come especially from the former surface treatment of recycled flooring and chemically largely defined. No concern in the final product.	LT-UNK	
Other	Proprietary	Proprietary 2				N.I.	✓ ✓
additives and		Proprietary 3	< 1,3%			LT-P1 N.I.	-
impurities	Cured chemicals of the surface treatement from the recycled flooring content	Proprietary 2 Proprietary 3				N.I.	-
	Polybutyleneglycol bis(4-	515136-48-8	< 0,6%			None	✓
Surface Treatment	benzoylphenoxy)acetate						→
	Silicon dioxide Dipropylene glycol diacrylate	69012-64-2 57472-68-1			Complex coating macropolymer based on polyurethane acrylate that is UV	LT-P1 LT-UNK	✓ ✓
	Paraffin waxes (petroleum),	64742-51-4			cured during application. Monomers	LT-UNK	✓
	hydrotreated 1-Propanone, 2-hydroxy-2-methyl-1- [4-(1-methylethenyl)phenyl]-, homopolymer	163702-01-0			mentioned are not present as such in the finished product and have lost properties that lead to specification for hazard labelling of raw materials. The	None	✓ ✓
	Tricyclo[5.2.1.02,6]decanedimethanol diacrylate	42594-17-2			coating doesn't contribute to a formaldehyde emission.	LT-P1	√
						N.I.	✓

FUNCTION	CHEMICALS	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^{(b}	REACH	
Backing	Polyethylenterephthalate	25038-59-9	< 0,1%		The backing consisting of 2 polymers	LT-UNK	✓	
	Polypropylene	95751-29-4			and a gluing system is used on in	N.I.	✓	
	Thermoplastic urethane based adhesive	Proprietary 3			DESIGN LOOSELAY product specification.	N.I.	-	
THEREOF								
Content sourced from abundant minerals			< 40%	Mineral fillers and the chlorine part of PVC are most predominant contributors to this figure. Only virgin raw material figures are counted in this section.				
Recycled content	- Internal post-industrial source (Reprocessed own production output)		≤42%	Raw materials used to generate the recycled industrial pre-use origin and are therefore chemical The contribution of the recycled content is highlight			cally largely defined.	
	- Post-installation / Pre-use source			chemical name. The contribution of post-installation recycled content is				
	- Post-use source		-	< 1%.				
Biologically renewable content	- Animal		-	No raw materials of animal origin identifiable in the product build-up			ld-up.	
	- Vegetal		< 1%	Epoxidized Soybean oil and fatty acid derivatives are obtained fro vegetal sources.			ed from	

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 Mösle

Partner & Managing Director

Dr. Alain RivièreScientific Supervisor



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

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%

XVII nor as SVHC and complies with European Union

GS-LT(b)

Lists)

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

LT-1: Chemical is found

GS- BM(b)

ratings

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

(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)

-: Not applicable due to missing CAS