Tarkett Linoleum Flooring - Silver Group

Issued to: **TARKETT**

Product specifications   Acoustic Cork Essenza+ 15dB, Acoustic Cork xf² 15dB, Ecopure xf², Essenza+, Etrusco xf², LinoRail HL3, Linoleum xf² Bfl, Linosport Classic / Narnidur, Linosport xf², Originale xf², Sicuro xf² R10, Silencio xf² 19dB / Acoustic xf² 19dB / Acoustiflor xf² 19dB, Style Elle / Lenza xf², Style Emme / Tonali xf², Trentino xf², Veneto xf², Lino Loose-Lay, LinoTiles.

Issue date: 16. March 2023 – Reprint 24. July 2023

Expiration date: 15. February 2024

Evaluation threshold: At least 100 ppm of the final product

After-use scenario: TARKETT ReStart® Program

EPEA Registry No: 39897.3

MHS Version: 2.0

C2C V3.1 – ID 5600

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM[(*)]	REACH
Linoleum Core layer	Calcium carbonate	1317-65-3	71-95%		Natural mineral containing traces of quartz. Potential health issue related to dust inhalation during mining / production. No concern in finished product. Magnesium carbonate is a natural and safe impurity of calcium carbonate rocks.	LT-UNK	✓
	Magnesium Carbonate	546-93-0				LT-UNK	✓
	Cork	61789-98-8			Fillers with PEFC or FSC certified sources. Potential health issue related to wood dust inhalation. No concern in finished product.	N.I.	✓
	Wood powder	9004-34-6 9005-53-2				LT-UNK	✓
	Linseed oil	8001-26-1			Native oil used as polymer precursor	LT-UNK	✓
	Colophony	8050-09-7			Binder. Colophony is sensitizing upon skin contact. No concern in the finished product as it is not present anymore as such	LT-P1	✓
	Cured linoleum scrap (option)	-			Linoleum powder is obtained by pulverization currently mainly of factory residual material that is reintroduced in the manufacturing process; a minor part is coming from post-installation scraps taken back in the frame of the ReStart® program.	N.I.	-
	Walnut husk[d]	-			Vegetal pigments with no indication for health issues during and after use of linoleum.	N.I.	✓
	Vegetal carbon Powder[d]	1333-86-4				BM1	✓
	Titanium Dioxide	13463-67-7			Other inorganic (titanium dioxide, iron oxides, carbon black) and organic pigments. Potential health issue related to dust inhalation during mining / production of mineral pigments possible. No concern in the finished product.	LT-1	✓
	Carbon Black	1333-86-4				BM1	✓
	Iron oxide pigments	1309-37-1				BM1	✓
		1317-61-9				LT-UNK	✓
		51274-00-1				LT-UNK	✓
	Proprietary pigments	Proprietary 1**				LT-P1	✓
	Proprietary pigments[e]	Proprietary 1**			Halogenated organic compounds (contributors to dioxin formation when combusted). No concern in the use phase. Not used in the Originale range.	LT-UNK	✓
	Calcium dihydroxide	1305-62-0			Additives (1%) with a function for the product or having had a function to produce used raw materials.	LT-P1	✓
	Aluminium oxide	1344-28-1				BM1	✓
	Silicon dioxide	69012-64-2				LT-P1	✓
	Aluminium silicate	12141-46-7				LT-UNK	✓
	Proprietary	Proprietary 1**				LT-P1	✓
						BM1	✓
	Siloxane	Proprietary 3**				N.I.	-

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FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM(*)	REACH
Jute layer	Jute	-	5-11%		Jute fibre backing with residual additives (<0.6%) involved in their production process.	N.I.	✓
	Tamarind kernel powder	-				N.I.	✓
	Liquid Paraffin	8012-95-1				LT-UNK	✓
	White mineral oil (petroleum)	8042-47-5				LT-UNK	✓
	Oils, tamarind	72968-49-1				None	✓
	Proprietary	Proprietary 1**				LT-P1	✓
Optional foam backing[b]	Polyurethane	Proprietary 3**	≤ 18%		Either reformulated polyurethane foam or polyethylene/polypropylene. Partly chemically defined.	N.I.	-
	Polyethylene	9002-88-4				LT-UNK	✓
	Polypropylene	9003-07-0				LT-P1	✓
	Other proprietary polymers	Proprietary 2**				LT-UNK	✓
		Proprietary 3**				N.I.	-
Optional reinforce-ment[f]	Polyethylene terephthalate	25038-59-9	< 4%		Reinforcement solution for dimension stability that is encapsulated in the linoleum mass.	LT-UNK	✓
	Styrene butadiene rubber	9003-55-8				LT-UNK	✓
Adhesive[c]	Proprietary components of polurethane-based adhesives	Proprietary 2**	≤ 4%		Largely chemically defined adhesive components.	N.I.	✓
						LT-UNK	✓
						LT-P1	✓
		Proprietary 3**				N.I.	-
Surface Treatment	Polyurethane acrylate coating	Proprietary 1,2**	≤ 0.8%		Surface reinforcement based on polyurethane acrylate chemistry involving a monomer which substitution is a task for future innovation.	N.I.	✓
			≤ 0.08%			BM1	✓
			≤ 0.01%		UV cured with a photo-initiator that is associated with health issues.	LT-1	✓
	Or, acrylate polymer coating[a]	Proprietary 2**	≤ 0.4%		Acrylic polymer based on monomers of no concern after polymerization and fillers.	N.I.	✓

THEREOF				
Content sourced from abundant minerals		≥ 11%	Calcium carbonate used as filler is an abundant resource.
Recycled content	- Internal post-industrial source (Reprocessed production output)	≤ 10%	Linoleum powder is obtained by pulverization currently mainly of factory residual material that is reintroduced in the manufacturing process; a minor part is coming from post-installation scraps taken back in the frame of the ReStart® program.
	- Post-installation / Pre-use source		
	- Post-use source	≤ 15%	The additional foam backing is made with reprocessed polyurethane foams obtained from recyclers.
Biologically renewable content	- Animal	-	Most of the content originates from renewable plant resources (wood, linseed oil, cork, colophony and jute fibres).
	- Vegetal	≤ 79%	

[a] Only in Essenza+, Acoustic Cork Essenza+ 15dB; [b] Only in Silencio xf² 19dB / Acoustic xf² 19dB / Acoustiflor xf² 19dB, Ecopure xf²; [c] Only in Silencio xf² 19dB / Acoustic xf² 19dB / Acoustiflor xf² 19dB, Ecopure xf², Acoustic Cork xf² 15dB, Acoustic Cork Essenza+ 15dB; [d] Only in Originale range; [e] Not used in the Originale range; [f] Only in Lino Loose-Lay, LinoTiles

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 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[(a)]
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[(a)]
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

[*] 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)