

MHS

Material Health Statement

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MHS står för "Material Health Statement" och är ett dokument framtaget för att transparent redovisa ett materials hälsoprofil, tredjepartsverifierat av EPEA (Agency for Environmental Protection Encouragement Agency). Denna materialutvärderingsdeklaration är ett frivilligt initiativ från Tarkett som bygger på resultaten från Cradle to Cradle's utvärderingsprocess för en produkts kemiska innehåll.

I första stege sker en inventering av de råvaror som används i våra produkter ner till 0,01 viktprocent. Detta steg görs av EPEA i nära samarbete med Tarketts leverantörer. Därefter görs en risk-klassificering med hjälp av REACH- och CLP-reglering samt Green Screen List Translator (GS-LT, som är en amerikansk klassificering av kemikalier), tillsammans med mer än 100 kemiska risk-listor och vetenskapliga källor till toxikologisk information för respektive ämne.

Efter att material har utvärderats, inklusive risk i den avsedda användningen (specifikt golv), ges de en färgkodad rekommendation:

- **Mörkgrön: "No concern"** (Ingen risk)
- **Ljusgrön: "Moderate concern"** (Låg risk)
- **Röd: "High concern, task for material optimization"** (Hög risk. Uppgift för materialoptimering.)
- **Grå: "Unknown concern, task for knowledge development"** Okänd risk. Uppgift för kunskapsutveckling.)

Obs: Samtliga ingredienser som används av Tarkett överensstämmer med REACH-förordningen. EPEA:s rekommendationer kring materialoptimering handlar om att proaktivt minska hälso- eller miljöpåverkan långt utöver minimikraven för REACH, där ju deklareringsplikten är begränsad till 0,1 % av SVHC och kandidatämnen (bilagorna XIV och XVII) i REACH-förordningen.

Linoleum xf² / Linosom xf² / Harmonium xf²

Issued to: Tarkett
 Issue date: March 07.2018
 Expiration date: March 06.2020
 Evaluation threshold: At least 100 ppm of the final product
 After-use scenario: <http://tarkett.com/en/content/reuse-0>



C2CPII Certificate 3294
 Valid until 23.01.2020

Product specifications

Veneto xf², Etrusco xf², Style Elle xf² / Lenza xf², Style Emme xf² / Tonali xf², Sicuro xf² R10, Trentino xf², Originale xf²,
 Linoleum xf² Bfl, Essenza, Linosport xf², Linosport Classic / Narnidur, Acoustic Cork xf² 15 / Acoustic Cork Essenza 15,
 Silencio xf² 18 / Linosom Silencio xf² 18 / Acoustic xf² 18 / Harmonium xf² Acoustiflor, Ecopure xf², Elafono / Linosom Elafono

EPEA Registry No: MHS 39897.1

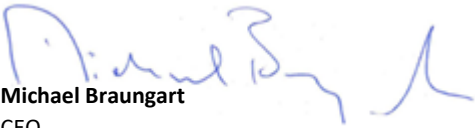
MHS Version: 2.0

MATERIAL FUNCTION	CHEMICAL COMPONENTS	CASRN	CONTENT	EPEA RATING	COMMENT ON EPEA RATING	GS-LT/ GS-BM	REACH	
Polymer precursor	Linseed oil	8001-26-1	22-33%			LT-UNK	✓	
Filler	Wood powder - Cellulose	9004-34-6	17 – 35%		Sources PEFC certified. Potential health issue related to wood dust inhalation. No concern in finished product.	LT-UNK	✓	
	Wood powder - Lignin	9005-53-2				LT-UNK	✓	
	Cork	61789-98-8				N.I.	✓	
	Calcium carbonate	1317-65-3	11-39%		Natural mineral containing traces of quartz. Potential health issue related to dust inhalation during mining/production. No concern in finished product.	LT-UNK	✓	
	Cured linoleum scraps (Option)	-	0 - 10%		Post-industrial materials from Tarkett productions with a composition reflecting the composition of Tarkett linoleum products without foam	N.I.	✓	
Binder	Colophony	8050-09-7	3-5%		Colophony is sensitizing upon skin contact only in the oxidized form. No concern in product form due to lack of exposure.	N.I.	✓	
Backing	Jute	-	5-17%		Contains unproblematic additives, the jute batching oil has acceptable heavy metal and PAH concentrations.	LT-UNK	✓	
Pigments	Titanium dioxide	13463-67-7	< 10%		Organic and inorganic (Titanium dioxide and iron oxides) pigments involved. Potential health issue related to dust inhalation during mining/production of mineral pigments possible. No concern in finished product. Halogenated organic compounds can lead to dioxin formation when combusted	LT-1	✓	
	Carbon black	1333-86-4				LT-1	✓	
	Iron oxide pigments	1309-37-1				BM2	✓	
		12227-89-3				LT-UNK	✓	
		1310-14-1				LT-UNK	✓	
	Organic pigments	Proprietary 1				LT-UNK	✓	
						LT-P1	✓	
				LT-UNK	✓			
				N.I.	✓			
Vegetal colorants ^a	Walnut husk powder	-	< 7%		Vegetal pigments with no indication for health issues.	N.I.	✓	
	Vegetal carbon powder	-				N.I.	✓	
Additional backing ^b	PU Foam	Proprietary 2	< 18%		Reformulated recycled polyurethane formulation, partly defined	N.I.	-	
							N.I.	✓
							LT-UNK	✓
Adhesive ^c	Adhesive	Proprietary 2	< 4%		Chemically defined adhesive. Red labelled components are quantitatively minor (e.g. close to 100 ppm)	BM4, LT-1, LT-P1, LT-UNK, N.I.	✓	

MATERIAL FUNCTION	CHEMICAL COMPONENTS	CASRN	CONTENT	EPEA RATING	COMMENT ON EPEA RATING	GS-LT/ GS-BM	REACH
Coating	Polyurethane acrylate coating	Proprietary 1,2,3	< 1%	High concern	Surface reinforcement based on polyurethane acrylate chemistry. UV cured with a photo-initiator that is associated with health issues.	N.I.	✓
	Or Acrylic finish ^d	Proprietary 2		Moderate concern	Contains ingredients of no/low concern, good VOC picture (applied on linoleum). No concern in finished product	LT-1, LT-P1, LT-UNK, N.I.	✓
Formulation auxiliaries and impurities	Proprietary	Proprietary 1	< 1.2%	No concern	Formulation auxiliaries and impurities of syntheses involved in the production of various inputs. The proprietary component accounts for less than 0.1%	BM4	✓
	Aluminium oxide	1344-28-1		Moderate concern		LT-UNK	✓
	Magnesium carbonate	13717-00-5		Moderate concern		LT-1	✓
	Calcium dihydroxide	1305-62-0		Moderate concern		N.I.	✓
	Jute batch oil	-		Moderate concern		LT-UNK	✓
	Tamarind kernel powder	-		Moderate concern		N.I.	✓
	Proprietary	Proprietary 3		Unknown concern		N.I.	-

a: only in Originale range; b: only in Silencio xf² 18 / Linosom Silencio xf² 18 / Acoustic xf² 18 / Harmonium xf² Acoustiflor, Ecopure xf²; c: only in Silencio xf² 18 / Linosom Silencio xf² 18 / Acoustic xf² 18 / Harmonium xf² Acoustiflor, Ecopure xf², Acoustic Cork xf² 15 / Acoustic cork Essenza 15; d: only in Veneto Essenza, Acoustic cork Essenza 15

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 [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.


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Legend:

EPEA RATING:

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

REACH compliance:

- ✓ : Substance complies with REACH regulation European Union Regulation EC 1907/2006 applicable to this article or substance is listed neither in Annex XIV nor in Annex XVII nor as SVHC
- 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%

GS-LT*

- 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*

- 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 classification (<https://toxnot.com/>)

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