

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.

Ecobase® PA 6 Continuous Dyed Carpet Tiles

Issued to: Tarkett
 Issue date: 15 September 2018
 Expiration date: 15 September 2020
 Evaluation threshold: At least 100 ppm of the final product
 After-use scenario: www.tarkett.com/en/content/restart
 EPEA Registry No: 39937.1
 Product specification: DESSO® Tempra Ecobase™

MHS Version: 2.0



Certificate 3062
 Expires on 01.04.2019

CHEMICAL COMPONENTS		CASRN	CONTENT	EPEA RATING	COMMENT	GS-LT/ GS-BM	REACH
Polymers	Polyamide 6	25038-54-4	10-20%	Green	Polymers suitable for thermomechanical recycling and partially for chemical recycling (Nylon 6 und Polyethylene terephthalate). VOC test show no relevant residual monomers. From the polymers no hazards are expected in the technical cycle.	LT-UNK	✓
	Polyethylene terephthalate	25038-59-9	1-3%	Light Green		LT-UNK	✓
	Polypropylene	9003-07-0	1-3%	Light Green		LT-UNK	✓
	Polyolefin	Proprietary 1 and 2	3-6%	Green		LT-UNK	✓
	Styrene butadiene latex	9003-55-8	1-5%	Light Green		LT-UNK	✓
	Other polymers	Proprietary 2	<1%	Light Green		LT-UNK	✓
Fillers	Calcium carbonate	1317-65-3	45-55%	Green	Natural mineral containing < 1% quartz. Potential health issue related to dust inhalation during mining. No concern in finished product.	LT-UNK	✓
	Aluminium trihydrate	21645-51-2	10-15%	Light Green	Filler with flame retardant properties. No concern in finished product.	BM2	✓
Reinforcement	Continuous filament glass fibre	65997-17-3	<1%	Light Green	No concerns in finished product.	LT-UNK	✓
Pigments	Pigment Black 7	1333-86-4	<1%	Light Green	Potential health issues related to dust inhalation during production of mineral pigments. No concern in the finished product. Contained halogens and metals in organic pigments determine the red rating. Few pigments are not defined yet.	BM1	✓
	Pigment white 6	13463-67-7		Light Green		LT-1	✓
	Other pigments	Proprietary 2		Red		LT-UNK	✓
	Undefined pigments	Proprietary 3		Light Green		BM2, LT-P1, LT-UNK, N.I.	✓
Dyes	Natrium 6-Amino-5-[[5-chlor-2-(2-Chlorphenoxy)phenyl]azo]-4-hydroxy-2-naphthalensulfonat	103241-64-1	<1%	Red	Green assessed dyes are halogen and metal free. Contained halogens and metals determine the red rating. Few dyestuffs are not defined yet.	LT-UNK	✓
	Other dyes	Proprietary 3		Light Green		LT-1, LT-P1, LT-UNK, N.I.	✓
	Undefined dyes	Proprietary 3		Red		N.I.	-
Additives	White mineral oil (petroleum)	8042-47-5	1-2%	Light Green	Pharmaceutical grade.	LT-UNK	✓
	Petroleum resins	64742-16-1	3-6%	Light Green	Food approved petroleum resin without PAH content.	LT-1	✓
	Hydrotreated microcrystalline wax	64742-60-5	1-3%	Green	No hazards identified.	LT-UNK	✓
	Sodium polyacrylate	9003-04-7		Light Green		LT-UNK	✓
	Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	6683-19-8		Green		LT-UNK	✓

CHEMICAL COMPONENTS		CASRN	CONTENT	EPEA RATING	COMMENT	GS-LT/ GS-BM	REACH
	Other additives	Proprietary 2	<3%	Green	Surfactants, thickener, defoamer, antistatics, antioxidant, stabilizer, lubricant, etc. No particular issues.	LT-1, LT-P1, LT-UNK	✓
	Undefined additives	Proprietary 3		Grey		N.I.	-
Process aids	Spinning oils	Proprietary 2	<1%	Green	Processing aids have a functional purpose in the production process or had it to produce inputs by suppliers. Some are still undefined.	LT-UNK, LT-P1, N.I.	✓
	Ethoxylated fatty alcohols	-		Green		-	-
	Dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)	68442-72-8		Green		LT-UNK	✓
	Ethanediol diformate	629-15-2		Green		LT-UNK	✓
	1,2-Ethanediol, monoformate	628-35-3		Green		LT-UNK	✓
	Sodium dihydrogenorthophosphate	13472-35-0		Green		LT-UNK	✓
	Acetic acid, ammonium salt	631-61-8		Green		LT-UNK	✓
	Other process aids especially for the dyeing process	Proprietary 2 and 3		Green		N.I., LT-1	✓
			Grey	N.I.	-		
Impurities	Caprolactam, residual	105-60-2	<0.5%	Green	Residues from different inputs. Assessment based on low content in finished products.	LT - UNK	✓
	Undefined impurities	Unknown		Grey		N.I.	-

The total % of recycled content varies per product and per colour which can be found on the Tarkett website: professionals.tarkett.com.
Content of components with grey rating is <2% of the total weight of the carpet tile.

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 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

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](#))