

# MHS

Material Health Statement

# Material Health Statement

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.


## ID Inspiration Click

Issued to: Tarkett  
 Issue date: 19.11.2018  
 Expiration date: 18.11.2020  
 Evaluation threshold: At least 100 ppm of the final product  
 After-use scenario: [Tarkett ReStart® program](#)  
 EPEA Registry No: 39915.1 MHS Version: 2.0

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM	REACH
<b>Fillers</b>	Calcium carbonate	1317-65-3	> 50%			LT-UNK	✓
<b>Polymers</b>	Polyvinylchloride	9002-86-2	< 35%		Transitional use of PVC is tolerated in the durable flooring application because of the ReStart® offer of Tarkett for the management after use (a). Purchased resins contain less < 1 ppm residual VCM monomer	LT-UNK	✓
<b>Polymerization additives</b>	Proprietary	Proprietary 3	< 0.5%	-	Definition of polymerization additives attempted in cooperation with suppliers of polyvinylchloride	N.I.	-
<b>Plasticizers</b>	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester	166412-78-8	< 15%		Alternative to phthalate plasticizers, some of them being approved for food contact applications in both the USA and the EU.	LT-UNK	✓
	Soybean oil, epoxidized	8013-07-8				LT-UNK	✓
<b>Fiber matt</b>	E-glass	65997-17-3	< 1.5%		No issue expectable with the glass fibre, also during mechanical recycling and no contribution to a product formaldehyde emission	LT-UNK	✓
	UF, PF or MF resin	-				N.I.	-
<b>Pigments</b>	Pigment White 6	13463-67-7	< 0.3%		Potential health issues related to dust inhalation during mining/production. No concern in the finished product	LT-1	✓
	Pigment Black 7	1333-86-4				BM1	✓
	Pigment Blue 15	12239-87-1				BM3	✓
	Pigment Red 254	84632-65-5				LT-UNK	✓
	Pigment Yellow 183	65212-77-3				LT-UNK	✓

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM	REACH		
<b>Additives, formulation auxiliaries, impurities</b>	Crystalline silica - Quartz type	14808-60-7	< 0.1%		The source of calcium carbonate filler contains with <0.1% a very low level of this impurity. No expectable concern	LT-1	✓		
	Magnesium carbonate	546-93-0	<0,25			LT-UNK	✓		
	Components of a calcium/zinc heat stabilizer system	Proprietary 2	< 1.5%			Environmentally well performing heat stabilizer system	LT-UNK	✓	
						N.I.	✓		
	2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and ethenyl-benzene	27136-15-8					No issue expectable with this polyacrylate-based processing aid	LT-UNK	✓
	Components of the surface treatment	Proprietary 2				Surface treatment obtained with a poly-urethane/polyacrylate polymer and mineral inclusions. The sensitization potential of the monomers gets lost during curing	LT-UNK	✓	
						N.I.	✓		
	Stearic acid	57-11-4						LT-UNK	✓
1,2-Cyclohexanedi-carboxylic acid, monoisononyl ester	-					No issues expectable with these synthesis impurities and input formulation additives	N.I.	✓	
Water	7732-18-5						BM4	✓	

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.

  
**Michael Braungart**  
 CEO  
 EPEA Internationale Umweltforschung GmbH

  
**Alain Rivière**  
 Senior Scientist  
 EPEA Internationale Umweltforschung GmbH

#### 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<sup>(b)</sup>

- 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<sup>(b)</sup>

- 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](#))