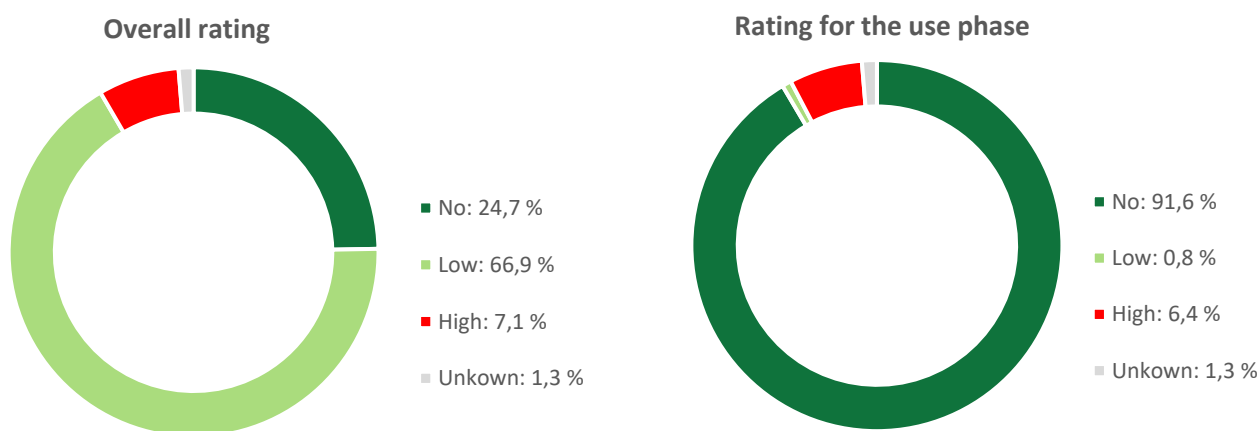


## DESSO PA6 Solution Dyed Carpet Tiles

<b>Company:</b>	<b>TARKETT</b>
<b>Product specifications</b>	DESSO Defend, DESSO Desert, DESSO Essence, DESSO Essence Maze, DESSO Essence Pure, DESSO Essence Roots, DESSO Essence Stripe, DESSO Essence Structure, DESSO Essence Traces, DESSO Grain, DESSO Recharge, DESSO Retrace, DESSO Rock, DESSO Salt
<b>Issue date:</b>	04. April 2024
<b>Expiration date:</b>	04. November 2025
<b>Evaluation and declaration threshold:</b>	At least 100 ppm of the final product
<b>After-use scenario:</b>	Tarkett proposes to take back your products after use, thanks to the <a href="#">TARKETT ReStart® Program</a> . <b>Check Tarkett national websites for Restart program availability.</b>
<b>EPEA Registry No:</b>	39938.4
<b>MHS Version:</b>	3.0

### Chemicals Risk Assessment: Concern level



# DESSO PA6 Solution Dyed Carpet Tiles

This summary presents the average mass weighted distribution of material health ratings presented on next pages. Ratings address benefits and risks of chemical components of the product for humans and the living environment:

- during the phase of use of the product.
- overall while taking into account a) the last manufacturing step using raw materials leading to them in the product's composition, b) the production of raw materials in the supply chain as far as information is attainable from suppliers or from generic literature, and c) the intended management scenario after use.

The benefit and risk analysis follows a qualitative and quantitative breakdown of the product's chemical composition from the chemical composition of raw materials, a reconstruction of chemical transformation pathways and an anticipation of the chemical's behaviour during the intended after-use processing. This information is combined with physical and (eco)toxicological properties of pure chemicals obtained from governmental and non-governmental scientific organisations to derive a level of concern.

The MHS is making transparent at a point in time results of the company's activities for developing benefits of the product, including environmental and health benefits, with its purchasing and commercialization practices.

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING		GS-LT GS-BM <sup>(a)</sup>	REACH	
				USE PHASE	OVERALL			
Polymers	Polyamide 6	25038-54-4	≤ 14.5%			LT-UNK	✓	
	Polyethylene terephthalate	25038-59-9	≤ 6%			LT-UNK	✓	
	Butadiene Styrene Copolymer	9003-55-8	≤ 4.5%			LT-UNK	✓	
	Polypropylene	9003-07-0	≤ 0.5%			LT-P1	✓	
	Other polymers	Proprietary	≤ 0.5%			LT-UNK	✓	
	<i>Polymers involved in different layers of the carpet. Polyamide 6, the main polymer the yarn is consisting of, is a state-of-the-art technical nutrient which can be depolymerized for subsequent repolymerization to virgin-like quality. Synthesis impurity ε-caprolactam is of no concern.</i>							
	<i>Nanomaterials: No</i>							
Fillers	Calcium carbonate	471-34-1	≤ 50%			LT-UNK	✓	
	Crystalline silica - Quartz type <sup>(b)</sup>	14808-60-7				LT-1	✓	
	Aluminum trihydrate	1333-84-2		≤ 16%			BM2	✓
	<i>Calcium carbonate, obtained as by-product of the processing of drinking water has a mean particle size of 250 μm and low level of quartz. Aluminium trihydrate is a filler with flame retardant properties and a mean size of 11 μm. No concern in the finished product.</i>							
<i>Nanomaterials: No</i>								
Coloration agents	Carbon black	1333-86-4	< 1%			BM1	✓	
	Titanium dioxide	13463-67-7				LT-1	✓	
	Other pigments	Proprietary					LT-UNK	✓
							N.I.	✓
							LT-UNK	✓
							BM1	✓
							None	✓
			BM1	✓				
<i>Potential health issues related to dust inhalation during production of mineral pigments. No concern in the finished product. Contained halogens and heavy metals in organic pigments determine the red rating. Few pigments are not explicitly defined but likely to be encompassed in the list of defined pigments.</i>								
<i>Nanomaterials: Not verified</i>								
Reinforcement	Glass scrim	65997-17-3	≤ 0.8%			LT-UNK	✓	
	<i>Glass filaments embedded in the heavy coating. No concern.</i>							
<i>Nanomaterials: No</i>								
Additives, processing aids, impurities	White mineral oil (petroleum)	8042-47-5	< 5%			LT-UNK	✓	
	Alcohols, C16-18, ethoxylated	68439-49-6				LT-P1	✓	
	Other additives, processing aid chemicals and impurities	Proprietary					LT-UNK	✓
							LT-P1	✓
							LT-UNK	✓
							LT-UNK	✓
							None	✓
			N.I.	-				
<i>Surfactants, thickener, defoamer, antistatic agents, antioxidant, stabilizer, lubricant, etc. No issues. Additives and processing aids have a functional purpose in the production process or had one to produce inputs by suppliers. Some are still undefined. Rating based on low content of each chemical in finished products.</i>								
<i>Nanomaterials: Not excluded</i>								

# DESSO PA6 Solution Dyed Carpet Tiles

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING		GS-LT GS-BM <sup>(a)</sup>	REACH
				USE PHASE	OVERALL		
Heavy coating basis	Heavy coating basis	Proprietary	< 12%			LT-1	Prop 65
	<i>Bitumen is a residual product of the petroleum refinery industry with variable composition. Red rating due to analytic results showing that it contains several different, undefined impurities. Concerns related to safety during production and eventual attempts to recycle the heavy coating.</i>						
	Nanomaterials: No						
<b>THEREOF</b>							
Content sourced from abundant minerals			≤ 11%				
Recycled content	- Internal post-industrial source		-	Polyamide 6 originates partly from recycling operations of post-use material sources.			
	- Post-installation / Pre-use source		-				
	- Post-use source		≤ 17%				
Biologically renewable content	- Animal		-	Not applicable			
	- Vegetal		0%				

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 V3.0 Development Guidance](#)). EPEA believes the data forth herein are accurate as of the date hereof. EPEA makes no warranty with respect thereto and expressly denies all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.



Dr. Peter Möhle  
Partner & Managing Director



Dr. Alain Rivière  
Scientific Supervisor



## Legend:

EPEA RATINGS	REACH compliance:	GS-LT <sup>(b)</sup>	GS- BM <sup>(b)</sup>
<span style="color: green;">■</span> No concern	✓: 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	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)	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
<span style="color: lightgreen;">■</span> low concern			
<span style="color: red;">■</span> High concern – Task for material optimization			
<span style="color: gray;">■</span> Risk cannot be verified Task for knowledge development			

(a) GreenScreen List Translator Score and GreenScreen Benchmark Score according to [3E Exchange](#)

(b) Component originating either from the natural resource or from virgin or recycled raw material without functionality in the product's context.

(c) Proprieties can be due to the decision of the producer or result from non-communication of the full composition of used raw materials either to producer, or to EPEA, or both.

(d) [EPEA's position on PVC and chlorine management](#)

(e) [Californian Respiratory Exposure Limits \(CREL\)](#)

(f) [EU-Lowest Concentrations of Interest \(LCI values\)](#)