

DESSO PA6 Solution Dyed Carpet Tiles

Issued to: TARKETT

Product specifications: Desso Defend, DESSO Desert, DESSO Essence, DESSO Essence Maze, DESSO Essence Stripe, DESSO Essence Structure, DESSO Grain, DESSO Natural Nuances, DESSO Recharge, DESSO Reclaim Ribs II, DESSO Retrace, DESSO Rock, DESSO Salt, DESSO Scape, DESSO Verso, DESSO Shape, DESSO Solid, DESSO Fuse, DESSO Essence Pure, DESSO Essence Roots, DESSO Essence Traces

Issue date: 17 Mai 2022. Reprint 11. July 2023

Expiration date: 04 November 2023

Evaluation threshold: At least 100 ppm of the final product

After-use scenario: [Tarkett ReStart® program](#)

EPEA Registry No: 39938.3

MHS Version: 2.0



Validity 04. Nov, 2023

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GC-BM ^(a)	REACH
Polymers	Polyamide 6	25038-54-4	10.5-15.8%	Green	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. Auxiliaries and synthesis impurity ε-caprolactam are of no concern.	LT-UNK	✓
	Polyethyleneterephthalate	25038-59-9	8-19.1%	Green		LT-UNK	✓
	Butadiene Styrene Copolymer	9003-55-8	3.9-4%	Green		LT-UNK	✓
	Polypropylene	9003-07-0	1.1-1.5%	Green		LT-P1	✓
	Proprietary	Proprietary 1		<0,02%		Green	LT-UNK
Proprietary 2			0.5-0.6%	Green	LT-UNK	✓	
Fillers	Calcium carbonate	13397-25-6	37.3-50.4%	Green	Natural mineral containing < 1% quartz. Potential health issue related to dust inhalation during mining. No concern in finished product.	None	✓
	Aluminum trihydrate	1333-84-2	3.4-3.5%	Green	Filler with flame retardant properties. No concern in the finished product.	LT-UNK	✓
Pigments	Carbon Black	1333-86-4	0.5-0.9%	Green	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.	BM1	✓
	Titanium Dioxide	13463-67-7		Green		LT-1	✓
	Proprietary	Proprietary 2		Green		LT-UNK	✓
				Red		LT-1	✓
Reinforcement	Glass scrim	65997-17-3	0.4-0.5%	Green	Glass filaments embedded in the heavy coating. No concern.	LT-UNK	✓
				Red			
Heavy coating basis	Proprietary	Proprietary 2	9.5-13.2%	Red	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.	LT-1	✓


FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GC-BM ^(a)	REACH
Additives, processing aids and impurities	Water	7732-18-5	7.4-7.9%		Surfactants, thickener, defoamer, antistatic agents, antioxidant, stabilizer, lubricant, etc. No issues. Processing aids have a functional purpose in the production process or had it to produce inputs by suppliers. Some are still undefined. Rating based on low content of each chemical in finished products.	BM4	✓
	2-butoxyethanol	111-76-2				LT-P1	✓
	2-Butanone	78-93-3				LT-P1	✓
	Diethylene glycol	111-46-6				LT-P1	✓
	White mineral oil (petroleum)	8042-47-5				LT-UNK	✓
	Crystalline silica - Quartz type	14808-60-7				LT-1	✓
	Proprietary	Proprietary 2				LT-P1	✓
						LT-UNK	✓
						None	✓
Hydrogen sulfide	7783-06-4		N.I.	✓			
Proprietary	Proprietary 3		N.I.	-			

THEREOF:

Content sourced from abundant minerals	-	Not applicable
Recycled content	- Pre-use source	17-25%
	- Post-use source	6.2%
Biologically renewable content	- Animal	-
	- Vegetal	-

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 (more information in the "MHS development Guidance V2.0", link in the legend below). 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 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^(b)

- 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^(b)

- 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) 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](#))