

BaseWorks®

Issued to: Tarkett
Issue date: 26 August 2022
Expiration date: 30 June 2024
Evaluation threshold: At least 100 ppm of the final product
After-use scenario: [Tarkett ReStart® program](#)
EPEA Registry No: 39582.4
MHS Version: 2.0



5649 (V3.1)

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(a)	REACH
Polymers	Styrene butadiene copolymer	9003-55-8	16%	Green	Combination of natural and synthetic polymers varying with each product specification. Monomers and typical rubber polymerization impurities are either not detected in VOC tests or detected at levels far below strict Lowest Concentration of Interest (LCI) of European VOC Standards.	LT-UNK	✓
	Cis 1,4 Polyisoprene	9003-31-0				LT-P1	✓
Fillers	Kaolin	1332-58-7	65%	Green	Organic and mineral fillers used, depending on each product specification. Most mineral fillers contain <1% quartz.	LT-UNK	✓
	Calcium carbonate	471-34-1				LT-UNK	✓
	Quartz	14808-60-7				LT-1	✓
Vulcanization agents	Sulfur	7704-34-9	2.2%	Green	Vulcanization agents create and catalyse formation of sulphur bridges between polymer molecules. Organic vulcanization accelerators are decomposed and lead to formation of substances susceptible to off-gas. Systems in use belong to most performant products in terms of prevention of carbon disulphide formation and don't contribute to the formation of carcinogenic nitrosamines.	LT-UNK	✓
	Zinc oxide	1314-13-2				N.I.	✓
	2-Benzothiazolesulfenamide, N-(1,1-dimethyl-ethyl)-	95-31-8				LT-P1	✓
	Zinc bis(dibenzylthiocarbamate)	14726-36-4				LT-P1	✓
	di(benzothiazol-2-yl) disulphide	120-78-5				LT-P1	✓
	2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-	53988-10-6				LT-P1	✓
Pigments	Iron oxide pigments	1333-86-4	5%	Green	Potential health issues related to dust inhalation during production of mineral pigments. No concern in the finished product. Contained halogens in organic pigments determine the red rating.	BM1	✓
		1309-37-1				BM1	✓
		51274-00-1				LT-UNK	✓
	Other mineral pigments	Proprietary 2				BM1	✓
		Proprietary 2				LT-UNK	✓
		Proprietary 2				None	✓
	Proprietary organic pigments	Proprietary 2				LT-UNK	✓
		Proprietary 1				N.I.	✓
		Proprietary 2				LT-UNK	✓
		Proprietary 2				LT-P1	✓
				Red		LT-UNK	✓

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(a)	REACH
Anti-oxidants, other process aids and additives, synthesis impurities	butylated reaction product of p-cresol and cyclo-pentadiene	68610-51-5	13.3%	High concern	Anti-oxidants, other process aids and additives have a functional purpose in the rubber production process or to produce production inputs by suppliers. Conditions for petroleum distillates not to be classified for carcinogenicity are fulfilled.	LT-UNK	✓
	4,6-bis(octylthiomethyl)-o-cresol	110553-27-0		Moderate concern		LT-UNK	✓
	Zinc distearate	91051-01-3		Moderate concern		LT-UNK	✓
	Calcium oxide	1305-78-8		Moderate concern		LT-P1	✓
	Paraffin wax	64742-43-4		Moderate concern		LT-UNK	✓
	Stearic acid	57-11-4		No concern		LT-P1	✓
	Microcrystalline wax	64742-60-5		Moderate concern		LT-UNK	✓
	Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4		Moderate concern		LT-1	✓
	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3		Moderate concern		LT-UNK	✓
	Resin acids and Rosin acids, potassium salts	61790-50-9		Moderate concern		LT-UNK	✓
Proprietary	Proprietary 2	Moderate concern	LT-1	✓			
THEREOF							
Content sourced from abundant minerals			3 - 65%	Fillers and the flame retardant are obtained from abundant resources.			
Recycled content	- Internal post-industrial source		0%	Baseworks is produced exclusively with virgin materials			
	- Post-installation / Pre-use source						
	- Post-use source						
Biologically renewable content	- Animal		10 - 15%	Apart from minor additives with undefined biological source the biologically renewable content (cork and natural rubber) originate from plants.			
	- 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 Number

GS-LT^(a)

- 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^(a)

- 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](#))