

BaseWorks®

Issued to: Tarkett
Issue date: November 11., 2019
Expiration date: November 10., 2020
Evaluation threshold: At least 100 ppm of the final product
After-use scenario: [Tarkett ReStart® program](#)
EPEA Registry No: 39582.3
MHS Version: 2.0



Certificate 4038
 Valid until 19 August
 2021

FUNCTION	CHEMICAL	CAS	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM	REACH
Polymers	Cis 1,4 Polyisoprene	9003-31-0	15-20%		Expectable carcinogenic and monomer residues are not detected in VOC tests	LT-P1	✓
	Styrene butadiene copolymer	9003-55-8				LT-UNK	✓
	Resin acids and Rosin acids, potassium salts	61790-50-9				LT-UNK	✓
Fillers	Kaolin	1332-58-7	50-70%		Minerals added as fillers or originating from additive formulations. No carcinogenicity risk expectable from <1%quartz content in these inputs	LT-UNK	✓
	Calcium carbonate	471-34-1				LT-UNK	✓
	Quartz	14808-60-7				LT-1	✓
Vulcanization agents	Sulphur	7704-34-9	1-2.5%		Chemical transformation of organic chemicals of the vulcanization system. VOC Analyses show concentrations far below Derived-No-Effect-Levels (DNEL) for products of chemical transformation associated potentially with health issues	LT-UNK	✓
	Zinc oxide	1314-13-2				LT-P1	✓
	Other vulcanization chemicals	Proprietary 1				LT-UNK	✓
Antioxidants	Antioxidants	Proprietary 1	<1%		A risk with antioxidants in the application and during grinding-based recycling isn't seen. one antioxidant is however recommended for substitution since it presents toxicological relevance after repeated exposure to the pure substance.	LT-P1	✓
						LT-UNK	✓
Process aids	Petroleum distillates	Proprietary 1	10-15%		Processing aids involved in the production of Baseworks or production inputs. No risk expectable. Specifications on impurities of petroleum distillates for exemption of classification as carcinogens do apply	LT-1	✓
	Calcium oxide	1305-78-8				LT-UNK	✓
	Paraffin wax	64742-43-4				LT-P1	•
	Liquid processing aid	Proprietary 1				LT-UNK	✓
	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-	25322-68-3				LT-UNK	✓
	Fatty acids, C8-18 and C18-unsaturated	57-11-4 67701-05-7				LT-UNK	✓
Pigments	Titanium dioxide	13463-67-7	0-3%		Potential health issues related to dust inhalation during production. No concern in the finished product	BM1	✓
	Carbon black	1333-86-4				BM1	✓
	Iron oxide pigments	1309-37-1				BM2	✓
		51274-00-1				LT-UNK	✓
	Other pigments	Proprietary 2				LT-UNK	✓
Other	Undefined	Undefined	<0.6%		Halogenated organic compounds	LT-UNK	✓
					Undefined components of natural rubber, fillers	N.I.	-

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.



Dr. Peter Mösle
Partner & Managing Director



Dr. Alain Rivière
Scientific Supervisor



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^(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: www.epea.com/wp-content/uploads/2019/03/MHS-Guidance-document-V2.0.pdf](https://www.epea.com/wp-content/uploads/2019/03/MHS-Guidance-document-V2.0.pdf))