

HOMOGENEOUS VINYL MID-RANGES

Issued to:	TARKETT
Product specifications	Eclipse / Primo range Eclipse Premium, Norma, Centra, Primo Safe.T, Primo SD, Primo Premium
Issue date:	15.12.2022
Expiration date:	14.12.2024
Evaluation threshold:	At least 100 ppm of the final product
After-use scenario:	TARKETT ReStart® Program
EPEA Registry No:	40571
MHS Version:	2.0

FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM ^(b)	REACH
PVC	PVC	9002-86-2	< 43.5%		Transitional use of PVC is tolerated in durable applications designed with good materials and a collection and recycling program in place(a). Vinyl chloride content is below 1 ppm in purchased products. Tarkett proposes to take back your installation residues and plans to propose to take back your products after use, thanks to the ReStart® program. Check Tarkett national websites for Restart program availability.	LT-P1	✓
	ND	Proprietary 3	< 0.4%			N.I.	-
Fillers	Dolomite	16389-88-1	< 41.3%		Fillers consist of pulverized calcium carbonate of virgin. No concern in the finished product.	LT-UNK	✓
	Calcium carbonate	13397-25-6				None	✓
	Diirontrioxide	1309-37-1				BM1	✓
	Crystalline silica - Quartz type	14808-60-7				LT-1	✓
	Proprietary	Proprietary 3				N.I.	-
Plasticizers	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester	166412-78-8	< 15.8%		Alternative to phthalate plasticizers. DINCH is produced by hydrogenation of DINP with thus modified properties. No toxicity identifiable, especially no mutagenicity, carcinogenicity or reproductive toxicity observed in animal tests. Capacity of MINCH (primary metabolic product of DINCH) to interfere with the metabolism and differentiation of adipocytes in in-vitro experiments was assumed in 2015 but convincingly refuted in more recent scientific publications. No concern with DEHT, especially no disruption of developmental pathways observed with metabolic products of DEHT.	LT-UNK	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-iisononyl ester	Not available				N.I.	-
	Terephthalic acid, dioctyl ester (DEHT)	6422-86-2				LT-UNK	✓
Stabilizers	Proprietary	Proprietary 2	< 0.7%		Calcium/Zinc-based heat stabilizing system. Zinc is essential trace element.	LT-UNK	✓
						LT-P1	✓
						BM3	✓
						N.I.	✓
Additives	Silicon dioxide	69012-64-2	< 0.6%		Additives and formulation auxiliaries that have a function in the product or had a function to produce raw materials. No concern seen.	LT-P1	✓
	zirconium dioxide	1314-23-4				LT-UNK	✓
	Aluminum phosphate	7784-30-7				LT-UNK	✓
	Aluminium trihydrate	1333-84-2				LT-UNK	✓
	Alcohols, C11-15-secondary, ethoxylated	68131-40-8				LT-P1	✓
	Tin dioxide	18282-10-5				LT-UNK	✓
	Proprietary	Proprietary 3				N.I.	-

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Pigments	Titanium Dioxide	13463-67-7	< 3.2%		Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Copper containing pigments are not recommended in the context of PVC because of the catalytic activity of copper for the formation of dioxins in case of fire. Chlorinated pigments are not recommended for reasons explicated in "EPEA's position on PVC and chlorine management" ^(a) .	LT-1	✓
	Carbon Black	61512-59-2				BM1	✓
	Pigment Blue 29	1302-83-6				None	✓
	Aluminium	91728-14-2				LT-UNK	✓
	Pigment Blue 15	147-14-8				LT-UNK	✓
	Pigment Green 7	1328-53-6				LT-UNK	✓
	Pigment Red 254	84632-65-5				LT-UNK	✓
	Pigment Red 144	5280-78-4				LT-UNK	✓
	Pigment Yellow 95	5280-80-8				LT-P1	✓
	Pigment Yellow 83	5567-15-7				LT-P1	✓
	Pigment Yellow 110	106276-80-6				LT-UNK	✓
	4-Chloro-2',5'-dimethoxy-acetoacetanilide'	4433-79-8		LT-P1	✓		
Surface Treatment	Proprietary	Proprietary 2	< 0.7%		Complex coating macropolymer based on polyurethane acrylate and urea formaldehyde chemistry that is UV cured during application. Monomers mentioned are not present as such and have therefore lost properties that lead to specification for hazard labelling of raw materials. The coating doesn't contribute to a formaldehyde emission.	LT-P1	✓
		Proprietary 2				LT-UNK	✓
		Proprietary 3				N.I.	-
THEREOF							
Content sourced from abundant minerals			<66%	Mineral fillers and the chlorine part of PVC are most predominant contributors to this figure. Only virgin raw materials are counted in this section.			
Recycled content	- Internal post-industrial source (Reprocessed own production output)		22%	The HOMOGENEOUS VINYL MID-RANGES are produced exclusively with virgin raw materials and defined recycled materials with the same chemical composition.			
	- Post-installation / Pre-use source		3.5%				
Biologically renewable content	- Animal		-	No raw materials of biological origin identifiable in the product build-up.			
	- 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 (See further [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.


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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 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^(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) 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](#))