WALLGARD

Issued to: TARKETT

Product specifications Wallgard

Issue date: May 12th, 2021. Reprint September 3rd, 2021

Expiration date: May 11th, 2023

Evaluation threshold: At least 100 ppm of the final product

After-use scenario: TARKETT ReStart® Program

EPEA Registry No: 40538

MHS Version: 2.0

FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM[(b)]	REACH
Resins	PVC	9002-86-2	< 40%	c	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	✓
	Polymerization auxiliaries	Proprietary 3	<2%	-		N.I.	✓
Flame retardants and fillers	Aluminum trihydrate	1333-84-2	< 40%	c	Fillers consist mainly of aluminum trihydrate which has flame retardant properties. Aluminum trihydrate and its impurities and zinc borate are uncritical in the use scenario. Antimony trioxide, present at a level slightly below 1% is suspected to be carcinogenic by many organizations (H351, MAK 2, IARC 2) and represents a task for needed optimization. Other contributors to filling materials consist of pulverized dolomite of virgin origin and chemicals originating mainly from the recycled content.	BM2	✓
	Dolomite	16389-88-1		c		LT-UNK	✓
	Sodium oxide	12401-86-4		c		LT-UNK	✓
	Crystalline silica - Quartz type	14808-60-7		c		LT-1	✓
	Diiron trioxide	1309-37-1		c		BM1	✓
	Proprietary	Proprietary 3		-		N.I.	-
Plasticizers	1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH)	166412-78-8	<15%	c	Alternative to phthalate plasticizers. DINCH is produced by hydrogenation of DINP with thus modified properties. Small amount of the synthesis impurity MINCH. No concern.	LT-UNK	✓
	1,2-Cyclohexanedicarboxylic acid, 1-methyl, 2-isononyl ester (MINCH)	-		c		N.I.	✓
Stabilizers	Soybean oil, epoxidized	8013-07-8	< 4%	c	ESBO has a plasticizing effect and scavenges hydrochloric acid which may be formed during the flooring use period. Other components belong to a Ca/Zn-based heat stabilization system.	LT-P1	✓
	Zinc distearate	91051-01-3	< 1.5%	c		LT-P1	✓
	Proprietary	Proprietary 2		c		BM3	✓
				c		LT-P1	✓
				c		LT-UNK	✓
				c		N.I.	✓

FUNCTION	CHEMICALS	CAS / EC	CONTENT	EPEA RATING	COMMENT	GS-LT GS-BM[(b)]	REACH
Pigments and inks	Titanium Dioxide	13463-67-7	< 1%	c	Potential health issue related to dust inhalation during mining/production of titanium dioxide. No concern in the finished product. Chlorinated and copper containing pigments are not recommended in the context of PVC.	LT-1	✓
	Carbon Black	61512-59-2	<0.4%	c		BM1	✓
	Pigment Blue 29	1302-83-6		c		LT-UNK	✓
	Pigment Yellow 110	106276-80-6		x		LT-P1	✓
	Pigment Yellow 95	5280-80-8		x		LT-P1	✓
	Proprietary Yellow pigment	Proprietary 2		x		LT-P1	✓
	Pigment Red 144	5280-78-4		x		LT-UNK	✓
	Pigment Green 7	1328-53-6		x		LT-UNK	✓
	Pigment Red 254	84632-65-5		x		LT-UNK	✓
	Pigment Blue 15:1	12239-87-1		x		LT-UNK	✓
	Silicon dioxide	69012-64-2		c		LT-1	✓
	Aluminum phosphate	7784-30-7		c		LT-UNK	✓
	zirconium dioxide	1314-23-4		c		LT-UNK	✓
Surface Treatment	Urea, polymer with formaldehyde	9011-05-6	< 1.5%	c	Complex acrylic/polurethane-based resin structure. Involved sensitzing monomers loose this potential in the course of curing	LT-P1	✓
	Proprietary	Proprietary 2		c		None	✓
	Acrylic polymer	Proprietary 3		-		N.I.	-
	Polyurethane			-		N.I.	-
THEREOF:							
Content sourced from abundant minerals			63%	Calcium carbonate and the chlorine part of PVC are most predominant contributors to this figure.			
Recycled content	- Internal post-industrial source (Reprocessed own production output)		25%	Wallgard is produced exclusively with primary resources.			
	- Post-installation		0.5%				
	- Post-use source		-				
Biologically renewable content	- Animal		-	No chemical with a possible animal origin is identified.			
	- Vegetal		4%	Epoxidized soybean oil and a number of other minor components are of vegetal origin.			

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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EPEA
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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)