

HPD UNIQUE IDENTIFIER: 25295

CLASSIFICATION: 09 65 16 Resilient Sheet Flooring

PRODUCT DESCRIPTION: QUANTUM® is a homogeneous sheet vinyl floor with a contemporary colour palette and unique visual, combining excellent durability and maintenance characteristics. Quantum is especially suitable for facilities subject to high daily use.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i> Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No % weight and role provided for all substances. Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No All substances screened using Priority Hazard Lists with results disclosed. Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.
<input type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Considered	
<input checked="" type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	<input type="radio"/> Partially Considered	
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	<input type="radio"/> Not Considered	
<input type="radio"/> Material	<input type="radio"/> Other	Explanation(s) provided for Residuals/Impurities?	
<input checked="" type="radio"/> Product		<input checked="" type="radio"/> Yes <input type="radio"/> No	

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
QUANTUM® [CALCIUM CARBONATE LT-UNK POLYVINYL CHLORIDE LT-P1 | RES DI(2-ETHYLHEXYL) TEREPHTHALATE BM-3dg TITANIUM DIOXIDE LT-1 | CAN | END 1,3-PROPANEDIONE, 1,3-DIPHENYL- NoGS ADIMOLL DO LT-P1 | MUL SOYBEAN OIL, EPOXIDIZED LT-P1 PHOSPHOROUS ACID, 2-ETHYLHEXYL DIPHENYL ESTER LT-P1 1-ETHYLPYRROLIDIN-2-ONE LT-1 | REP | MUL | DEV]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: FloorScore®

Multi-attribute: GreenTag 4.0 - Gold Plus - GreenRate Level A

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2021-01-21

PUBLISHED DATE: 2021-07-07

EXPIRY DATE: 2024-01-21

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

QUANTUM®

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.

OTHER PRODUCT NOTES: For more information on this product visit: <https://www.armstrongflooring.com/commercial/en-au/products/hom/quantum.html>

CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-01-21 17:16:50

#: 40.0000 - 50.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Filler

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Limestone filler

POLYVINYL CHLORIDE

ID: 9002-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-01-21 17:16:51

#: 40.0000 - 50.0000 GS: LT-P1 RC: None NANO: Unknown SUBSTANCE ROLE: Binder

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

RES

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Binder component

DI(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-01-21 17:16:51

#: 10.0000 - 15.0000 GS: BM-3dg RC: None NANO: Unknown SUBSTANCE ROLE: Plasticizer

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Binder component

TITANIUM DIOXIDE

ID: 13463-67-7

%: 1.0000 - 5.0000

GS: LT-1

RC: None

NANO: Unknown

SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: Titanium dioxide is listed as a hazard in respirable form. Titanium dioxide is not in a respirable form in the final product. Therefore, it is not expected to cause harm to the end users.

1,3-PROPANEDIONE, 1,3-DIPHENYL-

ID: 120-46-7

%: 1.0000 - 2.0000

GS: NoGS

RC: None

NANO: Unknown

SUBSTANCE ROLE: Stabilizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Binder component

ADIMOLL DO

ID: 123-79-5

%: 1.0000 - 5.0000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Binder component

SOYBEAN OIL, EPOXIDIZED

ID: 8013-07-8

%: 0.5000 - 2.0000

GS: LT-P1

RC: None

NANO: Unknown

SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Biobased binder component

PHOSPHOROUS ACID, 2-ETHYLHEXYL DIPHENYL ESTER

ID: 15647-08-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-01-21 17:16:52**

%: **0.1000 - 0.5000** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Stabilizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Binder component

1-ETHYLPYRROLIDIN-2-ONE

ID: 2687-91-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-01-21 17:16:52**

%: **0.1000 - 0.5000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
DEV	EU - GHS (H-Statements)	H360D - May damage the unborn child
REP	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans
DEV	GHS - Australia	H360D - May damage the unborn child
REP	GHS - Japan	Toxic to reproduction - Category 1B [H360]

SUBSTANCE NOTES: Coating component

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS	FloorScore®		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Braeside CERTIFICATE URL: https://www.armstrongflooring.com/pdbupimages-flr/220312.pdf	ISSUE DATE: 2020-09-01	EXPIRY DATE: 2021-08-31	CERTIFIER OR LAB: SCS Global Services
CERTIFICATION AND COMPLIANCE NOTES:			
MULTI-ATTRIBUTE	GreenTag 4.0 - Gold Plus - GreenRate Level A		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Braeside CERTIFICATE URL: https://www.globalgreentag.com/products/quantum/	ISSUE DATE: 2017-12-04	EXPIRY DATE: 2021-11-30	CERTIFIER OR LAB: Green Tag
CERTIFICATION AND COMPLIANCE NOTES: CSR Rating			

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

HEAT WELD OR PU100 SEAM BOND	HPD URL: https://www.armstrongflooring.com/commercial/en-au/
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Adhesives recommended for installation should include the following: • Floors / Walls: Full-Spread Adhesives SV200, Wet area floors PU100 polyurethane. • Floor cove work, wall installations, top of sheet internal and external corners: Contact adhesive SC100. • Seams / joins: Heat weld seams, Seam bond system using PU 100 Adhesive. HPDs are not available for these products.	

Section 5: General Notes

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information Armstrong Flooring expresses no opinion and makes no representations as to the applicability, suitability, accuracy, or completeness of the declaration form or the standards rules classifications warnings or criteria utilized or referenced therein. Information herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at www.armstrongflooring.com as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Flooring website for more information on this product.

MANUFACTURER INFORMATION

MANUFACTURER: Armstrong Flooring, Inc.
ADDRESS: 29-39 Mills Road
 Braeside Victoria 3195, Australia
WEBSITE: <https://www.armstrongflooring.com/commercial/en-au/>

CONTACT NAME: Peter Byron
TITLE: Technical and Sustainability Manager
PHONE: +61 3 9586 5548
EMAIL: pbyron@armstrongflooring.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.