

Poly-Crete MDQ Urethane Flooring System by Dur-A-Flex

Health Product Declaration v2.1

created via: toxnot.com

CLASSIFICATION: 09 67 23

PRODUCT DESCRIPTION: POLY-CRETE MDQ IS A DECORATIVE, 100% SOLIDS, AROMATIC, CEMENTITIOUS URETHANE CONCRETE COATING SYSTEM WITH A DECORATIVE COLORED QUARTZ BROADCAST.



Section 1: Summary

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold Level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals and impurities considered in all materials

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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** GREENSCREEN SCORE HAZARD TYPE;

QUARTZ LT - 1 CAN; **CEMENT DUST** LT - UNK CAN; **CASTOR OIL** LT - UNK; **PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER** LT - P1 MUL; **POLYMETHYLENE POLYPHENYL ISOCYANATE** LT - UNK CAN | RES | MUL; **4,4'-METHYLENEDIPHENYL DIISOCYANATE** LT - UNK CAN | EYE | SKI | RES | MAM | MUL; **BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO-** LT - UNK CAN | RES | SKI | EYE | MAM | MUL; **DIHYDROGEN OXIDE** BM - 4; **BRANCHED C10-ALKYL BENZOATES** NOGS; **CALCIUM CARBONATE** LT - UNK; **CALCIUM HYDROXIDE (CA(OH)2)** LT - UNK; **BENZENEMETHANOL** LT - UNK DEV | MAM; **GYPSUM** LT - UNK; **OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL) BIS(OXYMETHYLENE)]BIS-** LT - UNK SKI; **CALCIUM OXIDE** LT - UNK; **DIETHYLENE GLYCOL** LT - UNK DEV | MAM; **TITANIUM DIOXIDE** LT - 1 CAN; **NONYLPHENOL** LT - 1 END | AQU | SKI | REP | DEV | PBT | MAM | MUL; **MAGNESIUM OXIDE (MGO)** LT - UNK; **POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-Ω-HYDROXY-** LT - UNK; **PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(1-METHYLETHYL)-1,3-PROPANEDIYL ESTER** LT - P1 END; **ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A-HYDRO-Ω-HYDROXPOLY(OXY-1,2-ETHANEDIYL)** LT - UNK; **PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH**

Number of GreenScreen® BM-4/BM-3 contents: 1

Contents highest concern GreenScreen® Benchmark or List Translator Score: LT - 1

Nanomaterial: No contents are characterized as a nanomaterial

INVENTORY AND SCREENING NOTES

This HPD was created with Basic Inventory.

(CHLOROMETHYL)OXIRANE LT - P1 MUL | EYE | SKI |
 AQU;ALUMINUM OXIDE LT - 1 CAN | RES;

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0
 Regulatory (g/l): 0
 Does the product contain exempt VOCs? No
 Are ultra-low VOC tints available? Not Applicable

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings*

CONSISTENCY WITH OTHER PROGRAMS
 LEED v4 Material Ingredients Option 1.

Third Party Verified?	PREPARER:	SCREENING DATE: 8/16/2017
<input type="radio"/> Yes	VERIFIER:	PUBLISHED DATE: 8/16/2017
<input checked="" type="radio"/> No	VERIFICATION #:	EXPIRY DATE: 8/16/2020



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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

DUR-A-FLEX - POLY-CRETE MDQ

PRODUCT THRESHOLD: 1,000ppm RESIDUALS AND IMPURITIES CONSIDERED: Considered
 RESIDUAL/IMPURITIES NOTES:
 OTHER PRODUCT NOTES:

QUARTZ

ID: 14808-60-7

%: 60-70%	GS: LT - 1	RC: Unknown	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	MAK Carcinogen		Carc. 1	
CAN	IARC		1	

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CEMENT DUST

ID: 65997-15-1

%: 10-15%	GS: LT - UNK	RC: None	NANO: No	ROLE: Aggregate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	MAK Carcinogen		Carc. 3B	

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CASTOR OIL

ID: 8001-79-4

%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority Lists			

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER

ID: 28064-14-4

%: 1-5%	GS: LT - P1	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MUL	German FEA - Substances Hazardous to Waters		2	

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

POLYMETHYLENE POLYPHENYL ISOCYANATE

ID: 9016-87-9

%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	MAK Carcinogen		Carc. 4	
RES	AOEC - Asthmagens		Rs	
RES	AOEC - Asthmagens		G	
RES	MAK Sensitizing		Sah	
MUL	US EPA PPT Chemical Action Plans		EPA Chemical of Concern - Action Plan published	

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

4,4'-METHYLENEDIPHENYL DIISOCYANATE

ID: 101-68-8

%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	EU - Annex VI CMRs		Carc. 2	
CAN	MAK Carcinogen		Carc. 4	
EYE	EU - GHS (H-Statements)		H319	
SKI	EU - GHS (H-Statements)		H315	
RES	EU - GHS (H-Statements)		H334	
CAN	EU - GHS (H-Statements)		H351	
SKI	EU - GHS (H-Statements)		H317	
CAN	EU - R-Phrases		40	
SKI	EU - R-Phrases		38	
MAM	EU - R-Phrases		20	
EYE	EU - R-Phrases		36	
RES	EU - R-Phrases		42	
SKI	EU - R-Phrases		43	
CAN	EU - REACH Annex XVII CMRs		Carc. Cat. 3	
RES	AOEC - Asthmagens		G	
RES	MAK Sensitizing		Sah	
MUL	US EPA PPT Chemical Action Plans		EPA Chemical of Concern - Action Plan published	

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO-

ID: 26447-40-5

%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	EU - Annex VI CMRs		Carc. 2	
RES	EU - GHS (H-Statements)		H334	
SKI	EU - GHS (H-Statements)		H317	
CAN	EU - GHS (H-Statements)		H351	
SKI	EU - GHS (H-Statements)		H315	
EYE	EU - GHS (H-Statements)		H319	
MAM	EU - R-Phrases		20	
CAN	EU - R-Phrases		40	
EYE	EU - R-Phrases		36	
RES	EU - R-Phrases		42	
SKI	EU - R-Phrases		43	

SKI	EU - R-Phrases	38
CAN	EU - REACH Annex XVII CMRs	Carc. Cat. 3
MUL	US EPA PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

DIHYDROGEN OXIDE

ID: 7732-18-5

#: 1-5% GS: BM - 4 RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

BRANCHED C10-ALKYL BENZOATES

ID: 131298-44-7

#: 1-5% GS: NOGS RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CALCIUM CARBONATE

ID: 1317-65-3

#: 0.1-1% GS: LT - UNK RC: Unknown NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CALCIUM HYDROXIDE (CA(OH)2)

ID: 1305-62-0

#: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

BENZENEMETHANOL

ID: 100-51-6

#: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:
DEV G&L - Neurotoxic Chemicals Neurotoxicity
MAM EU - R-Phrases 20/22

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

GYPSUM

ID: 13397-24-5

#: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:
None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL) BIS(OXYMETHYLENE)]BIS-

ID: 17557-23-2

#: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:
SKI EU - GHS (H-Statements) H317
SKI EU - GHS (H-Statements) H315
SKI EU - R-Phrases 43
SKI EU - R-Phrases 38

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CALCIUM OXIDE

ID: 1305-78-8

%: 0.1-1%	GS: LT - UNK	RC: None	NANO: No	ROLE: Aggregate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority Lists			
SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.				

DIETHYLENE GLYCOL

ID: 111-46-6

%: 0.1-1%	GS: LT - UNK	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
DEV	G&L - Neurotoxic Chemicals	Neurotoxicity		
MAM	EU - R-Phrases	22		
SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.				

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.1-1%	GS: LT - 1	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen		
CAN	MAK Carcinogen	Carc. 3A		
CAN	IARC	2B		
SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.				

NONYLPHENOL

ID: 25154-52-3

%: 0.1-1%	GS: LT - 1	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
END	EU - Priority Endocrine Disrupters	II		
END	TEDX - Potential Endocrine Disruptor	Potential Endocrine Disruptor		
AQU	EU - GHS (H-Statements)	H400		
AQU	EU - GHS (H-Statements)	H410		
SKI	EU - GHS (H-Statements)	H314		
REP	EU - GHS (H-Statements)	H361f		
DEV	EU - GHS (H-Statements)	H361d		
PBT	EU - ESIS PBT	PBT/POP		
AQU	EU - R-Phrases	50/53		
DEV	EU - R-Phrases	63		
SKI	EU - R-Phrases	34		
MAM	EU - R-Phrases	22		
REP	EU - R-Phrases	62		
REP	EU - REACH Annex XVII CMRs	Repr. Cat. 3		
END	ChemSec - SIN List	Nonylphenol is an endocrine disruptor (cat 1) and is classified as possibly toxic for reproduction (R3), It is also persistent and bio-accumulative and it has been found in humans and the environment.		
MUL	US EPA PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.				

MAGNESIUM OXIDE (MGO)

ID: 1309-48-4

%: 0.1-1%	GS: LT - UNK	RC: None	NANO: No	ROLE: Aggregate
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority Lists			
SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.				

POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-Ω-HYDROXY-

ID: 25322-69-4

%: 0.1-1%	GS: LT - UNK	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			

None Found

No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(1-METHYLETHYL)-1,3-PROPANEDIYL ESTER ID: 6846-50-0

%: 0.1-1% GS: LT - P1 RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

END TEDX - Potential Endocrine Disruptor Potential Endocrine Disruptor

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A-HYDRO-O-HYDROXPOLY(OXY-1,2-ETHANEDIYL) ID: 57636-09-6

%: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE ID: 25068-38-6

%: 0.1-1% GS: LT - P1 RC: None NANO: No ROLE: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:

MUL German FEA - Substances Hazardous to Waters 2

EYE EU - GHS (H-Statements) H319

SKI EU - GHS (H-Statements) H315

AQU EU - GHS (H-Statements) H411

SKI EU - GHS (H-Statements) H317

AQU EU - R-Phrases 51/53a

SKI EU - R-Phrases 43

EYE EU - R-Phrases 36

AQU EU - R-Phrases 51/53

SKI EU - R-Phrases 38

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

ALUMINUM OXIDE ID: 1344-28-1

%: 0.1-1% GS: LT - 1 RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN MAK Carcinogen Carc. 2

RES AOEC - Asthmagens Rs

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

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.

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.

Section 5: General Notes

Residuals and impurities were considered for all raw materials and those that show up above the stated threshold were listed.



Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Dur-A-Flex

ADDRESS:

95 Goodwin Street, East Hartford, CT 06108

WEBSITE: www.dur-a-flex.com

CONTACT NAME: Ron Phillips

TITLE: Product Manager

PHONE: 800-253-3539

EMAIL: contact_us@dur-a-flex.com

KEY

OSHA MSDS

Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS

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

Hazard Types

AQU	Aquatic toxicity	GLO	Global warming	PHY	Physical Hazard (reactive)
CAN	Cancer	MAM	Mammalian/ systematic/organ toxicity	REP	Reproductive toxicity
DEV	Developmental toxicity	MUL	Multiple hazards	RES	Respiratory sensitization
END	Endocrine activity	NEU	Neurotoxicity	SKI	Skin sensitization/ Irritation/corrosivity
EYE	Eye irritation/corrosivity	OZO	Ozone depletion	LAN	Land toxicity
GEN	Gene mutation	PBT	Persistent Bioaccumulative Toxic	NF	Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4	Benchmark-4 (prefer – safer chemical)	LT-P1	List Translator Possible Benchmark 1
BM-3	Benchmark-3 (use but still opportunity for improvement)	LT-1	List Translator Likely Benchmark 1
	Benchmark-2 (use but search for safer substitutes)	LT-UNK	List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-2	Benchmark-1 (avoid – chemical of high concern)	NoGS	Unknown (no data on List Translator Lists)
BM-1	Benchmark Unspecified (insufficient data to benchmark)		
BM-U			

Recycled Types

PreC	Preconsumer (Post-Industrial)
PostC	Postconsumer
Both	Both Preconsumer and Postconsumer
Unk	Inclusion of recycled content is unknown
None	Does not include recycled content

Other Terms

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 nanoscale 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 note:

- 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.