## **Hybri-Flex ES by Dur-A-Flex**

## **Health Product Declaration v2.1**

created via: toxnot.com

CLASSIFICATION: 09 67 23

PRODUCT DESCRIPTION: HYBRI-FLEX ES IS A 3/16" SOLID COLOR FLOOR SYSTEM OFFERING THE ADDITIONAL BENEFITS OF HIGH MOISTURE TOLERANCE AND A THICKER, SELF-PRIMING, SELF-LEVELING FLOOR MAKING IT THE IDEAL CHOICE FOR INSTALLATION ON FRESHLY PLACED CONCRETE, ROUGH EXISTING FLOORS, OR WHERE HIGHER IMPACT RESISTANCE IS DESIRED.



# **Section 1: Summary**

### **CONTENT INVENTORY**

Inventory Reporting Format O Nested Materials Method	Threshold Level  ○ 100 ppm	Residuals/Impurities Residuals and impurities	Are All Substances Above t Indicated:	he Threshold
<ul><li>Basic Method</li></ul>	⊙ 1,000 ppm	considered in all materials	Characterized	<ul><li>Yes ONo</li></ul>
	O Per GHS SDS		Percent Weight and Role P	rovided?
Threshold Disclosed Per	O Per OSHA MSDS	Explanation(s) provided		
O Material	O Other	for Residuals/Impurities?	Screened	<ul><li>Yes ONo</li></ul>
		⊙ Yes ○ No	Using Priority Hazard Lists with Results Disclosed?	
			Identified Name and Identifier Provid	⊙ Yes ONo ded?

### **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, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE LT - P1 MUL | EYE | SKI | AQU;4,4'-METHYLENEDIPHENYL DIISOCYANATE LT -UNK CAN | EYE | SKI | RES | MAM | MUL; POLYMETHYLENE POLYPHENYL ISOCYANATE LT - UNK CAN | RES | MUL; BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO-LT-UNK CAN | RES | SKI | EYE | MAM | MUL; DIHYDROGEN OXIDE BM - 4 ; FIBERGLASS LT - UNK ; BRANCHED C10-ALKYL **BENZOATES NOGS ; CALCIUM CARBONATE LT-**UNK; BENZENEMETHANOL LT - UNK DEV | MAM; ISOPHORONE DIAMINE LT - P1 MUL | SKI | AQU | MAM; GYPSUM LT -UNK; HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER LT-UNK; OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS. LT - UNK SKI; CALCIUM HYDROXIDE (CA(OH)2) LT -UNK; CALCIUM OXIDE LT - UNK; TITANIUM DIOXIDE LT -1 CAN; DIETHYLENE GLYCOL LT - UNK DEV | MAM; 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; PHOSPHOROUS ACID, TRIPHENYL ESTER LT - P1 MUL | EYE | AQU | SKI; ALUMINUM OXIDE LT - 1 CAN | RES; ISOCYANIC ACID,

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.

POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A-HYDRO- $\Omega$ -HYDROXYPOLY( OXY-1,2-ETHANEDIYL) LT - UNK ;2-METHYL-1,5-PENTAMETHYLENEDIAMINE NOGS ;

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT** 

**CERTIFICATIONS AND COMPLIANCE** See Section 3 for additional

listings

Material (g/l): 0 Regulatory (g/l): 0

Does the product contain exempt VOCs? No Are ultra-low VOC tints available? Not Applicable

CONSISTENCY WITH OTHER PROGRAMS LEED v4 Material Ingredients Option 1.

Third Party Verified?

O Yes

VERIFIER:

VERIFICATION #:

SCREENING DATE: 8/16/2017

PUBLISHED DATE: 8/16/2017

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 - HYBRI-FLEX ES**

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

QUARTZ ID: 14808-60-7

%: 50-60% GS: LT - 1 RC: Unknown NANO: No ROLE: Textured Filler

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, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE

ID: 25068-38-6

%: 1-5%	CC. LT D1 DC. None	NANO. Na	DOLE: Handanan
%: 1-5%	GS: LT - P1 RC: None	NANO: No	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:		
MUL	German FEA - Substances Hazardous to	2	
	Waters		
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	al property of both	Dur-A-Flex and its suppliers.

4.4'-METHYLENEDIPHEN'	YL DIISOCYANATE
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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.

POLYMETHYLENE POLYPHENYL ISOCYANATE	ID: 9016-87-9
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%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	MAK Carcinogen		Carc. 4	
RES	AOEC - Asthmage	ns	Rs	
RES	AOEC - Asthmage	ns	G	
RES	MAK Sensitizing		Sah	
MUL	US EPA PPT Chem	nical Action Plans	EPA Chemical of Con-	cern - 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

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: Hardener** 

AGENCY(IES) WITH WARNINGS: **HAZARDS**:

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.

ID: 65997-17-3 **FIBERGLASS** 

%: 1-5% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

**HAZARDS**: AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority Lists None Found

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

ID: 131298-44-7

### **BRANCHED C10-ALKYL BENZOATES**

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

**HAZARDS**: AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority Lists None Found

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

ID: 1317-65-3 **CALCIUM CARBONATE** 

%: 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.

**BENZENEMETHANOL** ID: 100-51-6

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

**HAZARDS**: AGENCY(IES) WITH WARNINGS:

DEV **G&L** - Neurotoxic Chemicals Neurotoxicity

EU - R-Phrases 20/22 MAM

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

**ISOPHORONE DIAMINE** ID: 2855-13-2

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

AGENCY(IES) WITH WARNINGS: **HAZARDS**:

MUL German FEA - Substances Hazardous to

Waters

EU - GHS (H-Statements) H314

SKI	EU - GHS (H-Statements)	H317
AQU	EU - R-Phrases	52/53
SKI	EU - R-Phrases	43
MAM	EU - R-Phrases	21/22
SKI	EU - R-Phrases	34
AQU	EU - R-Phrases	52/53a
SKI	MAK Sensitizing	Sh

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.

HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER ID: 28182-81-2

%: 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.

OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS. ID: 68609-97-2

%: 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 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.

CALCIUM OXIDE ID: 1305-78-8

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

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.

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.

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.

MAGNESIUM OXIDE (MGO)

ID: 1309-48-4

ID: 25322-69-4

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

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-

%: 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- ID: 6846-50-0

**PROPANEDIYL ESTER** 

%: 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.

PHOSPHOROUS ACID, TRIPHENYL ESTER

ID: 101-02-0

ID: 15520-10-2

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

HAZARDS: AGENCY(IES) WITH WARNINGS:

MUL German FEA - Substances Hazardous to 2

Waters

EYE EU - GHS (H-Statements) H319 EU - GHS (H-Statements) AQU H410 AQU H400 EU - GHS (H-Statements) SKI EU - GHS (H-Statements) H315 AQU EU - R-Phrases 50/53 EYE EU - R-Phrases 36 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: Textured Filler

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.

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A- ID: 57636-09-6

HYDRO-Ω-HYDROXYPOLY( OXY-1,2-ETHANEDIYL)

%: 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.

2-METHYL-1,5-PENTAMETHYLENEDIAMINE

%: 0.1-1% GS: NOGS 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.



# **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.



#### MANUFACTURER INFORMATION

MANUFACTURER: Dur-A-Flex

ADDRESS:

95 Goodwin Street, East Hartford, CT 06108

CONTACT NAME: Ron Phillips TITLE: Product Manager PHONE: 800-253-3539

EMAIL: contact\_us@dur-a-flex.com

WEBSITE: www.dur-a-flex.com

#### **KEY**

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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/	REP	Reproductive toxicity
			systematic/organ 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
BM-2	Benchmark-1 (avoid – chemical of high concern)		from List Translator lists to benchmark)
BM-1	Benchmark Unspecified (insufficient data to benchmark)	NoGS	Unknown (no data on List Translator Lists)
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.