

CLASSIFICATION: 09 67 23

PRODUCT DESCRIPTION: DUR-A-GARD ESD IS A SOLID COLOR, SEAMLESS FLOORING SYSTEM CONSISTING OF 100% SOLIDS EPOXY.



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;

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE LT - P1 MUL | EYE | SKI | AQU; **NONYLPHENOL** LT - 1 END | AQU | SKI | REP | DEV | PBT | MAM | MUL; **POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-(2-AMINOMETHYLETHYL) -Ω-(2-AMINOMETHYLETHOXY)-** LT - P1 MUL; **OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS.** LT - UNK SKI; **MICA-GROUP MINERALS** LT - UNK ; **TIN OXIDE (SNO2)** LT - UNK ; **QUARTZ** LT - 1 CAN; **C.I. PIGMENT BLACK 23** LT - UNK ; **1,3-BIS(AMINOMETHYL)CYCLOHEXANE** LT - UNK ; **UNKNOWN** NOGS ; **ISOPHORONE DIAMINE** LT - P1 MUL | SKI | AQU | MAM; **TITANIUM DIOXIDE** LT - 1 CAN; **OXIRANE, 2,2'-[OXYBIS[(METHYL-2,1-ETHANEDIYL)OXYMETHYLENE]]BIS-** LT - UNK ; **2-PROPANOL, 1-METHOXY-** LT - UNK PHY; **BENZENEMETHANOL** LT - UNK DEV | MAM; **GRAPHITE** LT - UNK ; **2-(2-AMINOETHYLAMINO)ETHANOL** LT - 1 DEV | REP | SKI | MUL | RES; **PROPANOL, 1(OR 2)-(2-METHOXYMETHYLETHOXY)-, ACETATE** LT - UNK ; **4-MORPHOLINEPROPANAMINE** LT - P1 MUL; **CARBON BLACK** LT - 1 CAN; **DISTILLATES, PETROLEUM, HYDROTREATED LIGHT** LT - UNK CAN; **ANTIMONY OXIDE (ANTIMONY TRIOXIDE)** BM - 1 CAN | MUL; **BENZOIC ACID, 2-HYDROXY-** LT - UNK ; **GRAPHITE** LT - UNK ; **UNNAMED SUBSTANCE** NOGS ; **N-METHYLPYRROLIDONE** LT - 1 DEV | REP | SKI | EYE | MUL;

Number of GreenScreen® BM-4/BM-3 contents: 0

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

Nanomaterial: No contents are characterized as a nanomaterial

INVENTORY AND SCREENING NOTES

This HPD was created with Basic Inventory.

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**

No pre-checks completed or disclosed.

Third Party Verified?

 Yes No

PREPARER:

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 - DUR-A-GARD ESD

PRODUCT THRESHOLD: 1,000ppm

RESIDUALS AND IMPURITIES CONSIDERED: Considered

RESIDUAL/IMPURITIES NOTES:

OTHER PRODUCT NOTES:

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

ID: 25068-38-6

%: 40-50%	GS: LT - P1	RC: None	NANO: No	ROLE: Resin
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.

NONYLPHENOL

ID: 25154-52-3

%: 5-10%	GS: LT - 1	RC: None	NANO: No	ROLE: Hardener
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.

POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-(2-AMINOMETHYLETHYL) -Ω-(2-AMINOMETHYLETHOXY)- ID: 9046-10-0

%: 3-8%	GS: LT - P1	RC: None	NANO: No	ROLE: Hardener
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.

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

%: 3-8%	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.

MICA-GROUP MINERALS ID: 12001-26-2

%: 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.

TIN OXIDE (SNO2) ID: 18282-10-5

%: 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.

QUARTZ

ID: 14808-60-7

%: 1-5%	GS: LT - 1	RC: None	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.

C.I. PIGMENT BLACK 23

ID: 68187-54-2

%: 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.

1,3-BIS(AMINOMETHYL)CYCLOHEXANE

ID: 2579-20-6

%: 1-5%	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.

UNKNOWN

ID: UNKNOWN

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

SUBSTANCE NOTES: This chemical is considered proprietary by the supplier and efforts are being made to collect this information. A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

ISOPHORONE DIAMINE

ID: 2855-13-2

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

TITANIUM DIOXIDE

ID: 13463-67-7

%: 1-5%	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.

OXIRANE, 2,2'-[OXYBIS((METHYL-2,1-ETHANEDIYL)OXYMETHYLENE)]BIS- ID: 41638-13-5

%: 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.

2-PROPANOL, 1-METHOXY- ID: 107-98-2

%: 1-5% GS: LT - UNK RC: None NANO: No ROLE: Resin
HAZARDS: AGENCY(IES) WITH WARNINGS:
PHY EU - R-Phrases 10
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

%: 1-5% 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.

GRAPHITE ID: 7782-42-5

%: 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.

2-(2-AMINOETHYLAMINO)ETHANOL ID: 111-41-1

%: 0.1-1% GS: LT - 1 RC: None NANO: No ROLE: Hardener
HAZARDS: AGENCY(IES) WITH WARNINGS:
DEV EU - GHS (H-Statements) H360D
REP EU - GHS (H-Statements) H360f
SKI EU - GHS (H-Statements) H317
SKI EU - GHS (H-Statements) H314
REP EU - REACH Annex XVII CMRs Repr. Cat. 3
REP EU - REACH Annex XVII CMRs Repr. Cat. 2
MUL ChemSec - SIN List Classified CMR according to Annex VI of Regulation 1272/2008
RES AOEC - Asthmagens Rs
SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

PROPANOL, 1(OR 2)-(2-METHOXYMETHYLETHOXY)-, ACETATE ID: 88917-22-0

%: 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.

4-MORPHOLINEPROPANAMINE ID: 123-00-2

%: 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

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

CARBON BLACK ID: 1333-86-4

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

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN CA Prop 65 cancer

CAN IARC 2B

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

DISTILLATES, PETROLEUM, HYDROTREATED LIGHT ID: 64742-47-8

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

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.

ANTIMONY OXIDE (ANTIMONY TRIOXIDE) ID: 1309-64-4

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

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN CA Prop 65 cancer

MUL German FEA - Substances Hazardous to Waters 2

CAN EU - Annex VI CMRs Carc. 2

CAN IARC 2B

CAN EU - GHS (H-Statements) H351

CAN EU - R-Phrases 40

CAN EU - REACH Annex XVII CMRs Carc. Cat. 3

MUL ChemSec - SIN List Antimony Trioxide is classified as a possible carcinogen (C 3) and reprotoxic effects have been reported.

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

BENZOIC ACID, 2-HYDROXY- ID: 69-72-7

%: 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.

GRAPHITE ID: 7440-44-0

%: 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.

CARBAMIC ACID,[1,3- PHENYLENEBIS[METHYLENEIMINOCARBONYLIMINO-(METHYL-3,1-PHENYLENE)]]BIS-, BIS[2-[2-(2-BUTYOXYETHOXY)ETHOXY]ETHYL]ESTER ID: NOT ASSIGNED

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

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: As a new chemical, this chemical does not have a CAS number assigned. A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

N-METHYLPYRROLIDONE

ID: 872-50-4

%: 0.1-1%	GS: LT - 1	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
DEV	CA Prop 65		developmental	
REP	EU - SVHC Candidate List		Toxic for reproduction (Article 57c)	
DEV	EU - GHS (H-Statements)		H360D ***	
SKI	EU - GHS (H-Statements)		H315	
EYE	EU - GHS (H-Statements)		H319	
SKI	EU - R-Phrases		38	
DEV	EU - R-Phrases		61	
EYE	EU - R-Phrases		36	
REP	EU - REACH Annex XVII CMRs		Repr. Cat. 2	
MUL	ChemSec - SIN List		Classified CMR according to Annex VI of Regulation 1272/2008	
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.				



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.