

CLASSIFICATION: 09 67 23

PRODUCT DESCRIPTION: DUR-A-GARD IS A SOLID COLOR, 100% SOLIDS EPOXY FLOORING SYSTEM DESIGNED FOR COATING INDUSTRIAL AND COMMERCIAL FLOORS.



## 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;**DIHYDROGEN OXIDE** BM - 4 ;**TITANIUM DIOXIDE** LT - 1 CAN;**UNNAMED SUBSTANCE** NOGS ;**BENZENEMETHANOL** LT - UNK DEV | MAM;**OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS.** LT - UNK SKI;**HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER** LT - UNK ;**BARIUM SULFATE** LT - UNK ;**ISOPHORONE DIAMINE** LT - P1 MUL | SKI | AQU | MAM;**CALCIUM CARBONATE** LT - UNK ;**OXIRANE, 2,2'-[OXYBIS[(METHYL-2,1-ETHANEDIYL)OXYMETHYLENE]]BIS-** LT - UNK ;**PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER** LT - P1 MUL;**ALUMINUM OXIDE** LT - 1 CAN | RES;**PROPANOL, 1(OR 2)-(2-METHOXYMETHYLETHOXY)-, ACETATE** LT - UNK ;**2-METHYL-1,5-PENTAMETHYLENEDIAMINE** NOGS ;**CLAY** LT - UNK CAN;**1,3,3-TRIMETHYL-N-(2-METHYLPROPYLIDENE)-5-[(2-METHYLPROPYLIDENE)AMINO]CYCLOHEXANEMETHYLAMINE** LT - UNK ;**1,3-DIOXOLAN-2-ONE, 4-METHYL-** LT - UNK EYE;**CARBONIC ACID, DIMETHYL ESTER** LT - UNK PHY;**NONYLPHENOL** LT - 1 END | AQU | SKI | REP | DEV | PBT | MAM | MUL;**DISTILLATES, PETROLEUM, HYDROTREATED LIGHT** LT - UNK CAN;**AMORPHOUS SILICA** LT - UNK ;**PHOSPHOROUS ACID, TRIPHENYL ESTER** LT - P1 MUL | EYE | AQU | SKI;**BENZOIC ACID, 2-HYDROXY-** LT - UNK ;**ALUMINUM**

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.

HYDROXIDE BM - 2 ; UNNAMED SUBSTANCE NOGS ; UNNAMED SUBSTANCE NOGS ; SILICA, AMORPHOUS, FUMED, CRYST.-FREE LT - UNK ; FORMALDEHYDE POLYMER WITH 1,3-BENZENE DIMETHANAMINE AND PHENOL LT - UNK ; UNNAMED SUBSTANCE NOGS ;

**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?	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](http://www.hpd-collaborative.org/hpd-2-1-standard)

**DUR-A-FLEX - DUR-A-GARD**

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

#: 25-30%	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.

**DIHYDROGEN OXIDE**

ID: 7732-18-5

%: 10-15% GS: BM - 4 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.

**TITANIUM DIOXIDE**

ID: 13463-67-7

%: 5-10% 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.

**UNKNOWN**

ID: UNKNOWN

%: 5-10% GS: NOGS RC: NANO: 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.

**BENZENEMETHANOL**

ID: 100-51-6

%: 5-10% 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.

**OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS.**

ID: 68609-97-2

%: 5-10% 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.

**HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER**

ID: 28182-81-2

%: 5-10% 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.

**BARIUM SULFATE**

ID: 7727-43-7

%: 5-10% 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.

**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.

### CALCIUM CARBONATE

ID: 1317-65-3

%: 1-5%	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.

### OXIRANE, 2,2'-[OXYBIS[(METHYL-2,1-ETHANEDIYL)OXYMETHYLENE]]BIS-

ID: 41638-13-5

%: 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.

### 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.

### ALUMINUM OXIDE

ID: 1344-28-1

%: 1-5%	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.

### 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.

### 2-METHYL-1,5-PENTAMETHYLENEDIAMINE

ID: 15520-10-2

%: 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.

### CLAY

ID: 1332-58-7

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

**1,3,3-TRIMETHYL-N-(2-METHYLPROPYLIDENE)-5-[(2-METHYLPROPYLIDENE)AMINO]CYCLOHEXANEMETHYLAMINE** ID: 54914-37-3

%: 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.

**1,3-DIOXOLAN-2-ONE, 4-METHYL-** ID: 108-32-7

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

HAZARDS: AGENCY(IES) WITH WARNINGS:  
EYE EU - GHS (H-Statements) H319  
EYE EU - R-Phrases 36

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

**CARBONIC ACID, DIMETHYL ESTER** ID: 616-38-6

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

HAZARDS: AGENCY(IES) WITH WARNINGS:  
PHY EU - GHS (H-Statements) H225  
PHY EU - R-Phrases 11

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: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:  
END EU - Priority Endocrine Disruptors 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.

**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.

**AMORPHOUS SILICA**

ID: 7631-86-9

%: 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.

**PHOSPHOROUS ACID, TRIPHENYL ESTER**

ID: 101-02-0

%: 0.1-1% 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  
AQU EU - GHS (H-Statements) H410  
AQU EU - GHS (H-Statements) H400  
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.

**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.

**ALUMINUM HYDROXIDE**

ID: 21645-51-2

%: 0.1-1% GS: BM - 2 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.

**SILICA, AMORPHOUS, FUMED, CRYST.-FREE**

ID: 112945-52-5

%: 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

**FORMALDEHYDE POLYMER WITH 1,3-BENZENE DIMETHANAMINE AND PHENOL**

ID: 57214-10-5

%: 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.

**POLYPHOSPHORIC ACIDS, ESTERS WITH 2- OXEPANONE-POLYETHYLENE GLYCOL MONO-ME ETHER-TETRAHYDRO-2H-PYRAN-2-ONE POLYMER**

ID: NOT ASSIGNED

%: 0.1-1% GS: NOGS RC: NANO: 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.

### 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

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

#### GreenScreen (GS)

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

#### Recycled Types

<b>PreC</b>	Preconsumer (Post-Industrial)
<b>PostC</b>	Postconsumer
<b>Both</b>	Both Preconsumer and Postconsumer
<b>Unk</b>	Inclusion of recycled content is unknown
<b>None</b>	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.*