

# Flotex Sheet by Forbo Flooring Systems

CLASSIFICATION: 09 68 16.00 Finishes: Sheet Carpeting

PRODUCT DESCRIPTION: Flotex sheet is a flocked textile floor covering. It is made of 80 million fibers of Nylon 6.6 per square meter. The fibers are flocked into an adhesive, and has natural anti-microbial properties. It is compounded into the backing which is composed of 20% recycled content. Gauge: .17" (4.3mm) Width: 79" (2 meters) Length:98.4' (30 meters) Rolls Size: 71.76 yd2 (60 meters m2)

## Section 1: Summary

## Basic Method / Product Threshold

### CONTENT INVENTORY

#### Inventory Reporting Method

- Nested Materials Method  
 Basic Method

#### Threshold level

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

#### Residuals/Impurities

- Considered  
 Partially Considered  
 Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes  No

Are All Substances Above the Threshold Indicated:

#### Characterized

Percent Weight and Role Provided?

- Yes  No

#### Screened

Using Priority Hazard Lists with Results Disclosed?

- Yes  No

#### Identified

Name and Identifier Provided?

- Yes  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](#)

FLOTEX SHEET [ POLYVINYL CHLORIDE (PVC) **LT-P1** | RES BIS(2-ETHYLHEXYL) TEREPHTHALATE **BM-3** LIMESTONE; CALCIUM CARBONATE **LT-UNK** NYLON 6,6 (NYLON 6,6) **LT-UNK** CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE **LT-UNK** 1,1'-AZOBIS(FORMAMIDE) **LT-UNK** | RES ZINC OXIDE **BM-1** | RES | AQU | MUL 1-HEXANOL, 2-ETHYL-, PHOSPHATE **LT-P1** | END | MUL 2,4-/2,6-TOLUENE DIISOCYANATE MIXTURE (TDI 80/20) **LT-1** | CAN | MUL | SKI | EYE | MAM | RES POLYMERIC TDI **LT-P1** | MUL | RES | CAN BENZENE, MONO-C10-13-ALKYL DERIVS., DISTN. RESIDUES **LT-UNK** 2-NAPHTHALENESULFONIC ACID, 6-AMINO-5-[[5-CHLORO-2-(2- CHLOROPHENOXY)PHENYL]AZO]-4-HYDROXY-, MONOSODIUM SALT (2-NAPHTHALENESULFONIC ACID, 6-AMINO-5-[[5-CHLORO-2-(2-CHLOROPHENOXY)PHENYL]AZO]-4-HYDROXY-, MONOSODIUM SALT) **LT-UNK** ANTIMONY TRIOXIDE **BM-1** | CAN | AQU | MUL ZINC BORATE **BM-1** | MUL ]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen

Benchmark or List translator Score ... BM-1

Nanomaterial ... No

#### INVENTORY AND SCREENING NOTES:

Percentage (%) ranges for ingredients are used as a means of keeping the exact formulations proprietary.

### 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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

LCA: Environmental Product Declaration (EPD) by UL - Industry Generic

#### 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: 2018-10-09

PUBLISHED DATE:

EXPIRY DATE: 2021-10-09

## 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)

### FLOTEX SHEET

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present in the product at or above the reporting threshold.

OTHER PRODUCT NOTES:

#### POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

#: 35.0000 GS: LT-P1 RC: None NANO: No ROLE: Polymer

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

#### BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

#: 23.1000 GS: BM-3 RC: None NANO: No ROLE: Plasticiser

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#### LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: 19.4000 GS: LT-UNK RC: None NANO: No ROLE: Filler

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#### NYLON 6,6 (NYLON 6,6)

ID: 32131-17-2

#: 13.9000 GS: LT-UNK RC: None NANO: No ROLE: Carpet Pile

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#### CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

#: 4.6000 GS: LT-UNK RC: None NANO: No ROLE: Substrate & Reinforcement

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

#### 1,1'-AZOBIS(FORMAMIDE)

ID: 123-77-3

#: 0.1000 - 1.9000 GS: LT-UNK RC: None NANO: No ROLE: Blowing Agent / Pigment

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced

RESPIRATORY EU - GHS (H-Statements) H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

SUBSTANCE NOTES:

## ZINC OXIDE

ID: 1314-13-2

HAZARDS: AGENCY(IES) WITH WARNINGS:

GS: **BM-1** RC: **None** NANO: **No** ROLE: **Blowing Agent / Pigment**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SUBSTANCE NOTES:		

## 1-HEXANOL, 2-ETHYL-, PHOSPHATE

ID: 78-42-2

HAZARDS: AGENCY(IES) WITH WARNINGS:

GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Functional Additive**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SUBSTANCE NOTES:		

## 2,4-/2,6-TOLUENE DIISOCYANATE MIXTURE (TDI 80/20)

ID: 26471-62-5

HAZARDS: AGENCY(IES) WITH WARNINGS:

GS: **LT-1** RC: **None** NANO: **No** ROLE: **Functional Additive**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
RESPIRATORY	MAK	Sensitizing Substance Sa - Danger of airway sensitization
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
SUBSTANCE NOTES:		

## POLYMERIC TDI

ID: 9017-01-0

HAZARDS: AGENCY(IES) WITH WARNINGS:

GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Functional Additive**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
SUBSTANCE NOTES:		

## BENZENE, MONO-C10-13-ALKYL DERIVS., DISTN. RESIDUES

ID: 84961-70-6

HAZARDS: AGENCY(IES) WITH WARNINGS:

GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Viscosity Depressant**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

2-NAPHTHALENESULFONIC ACID, 6-AMINO-5-[[[5-CHLORO-2-(2- CHLOROPHENOXY)PHENYL]AZO]-4-HYDROXY-, MONOSODIUM SALT (2-NAPHTHALENESULFONIC ACID, 6-AMINO-5-[[[5-CHLORO-2-(2- CHLOROPHENOXY)PHENYL]AZO]-4-HYDROXY-, MONOSODIUM SALT) ID: 103241-64-1

#: 0.0700 GS: LT-UNK RC: None NANO: No ROLE: Dyestuffs

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ANTIMONY TRIOXIDE ID: 1309-64-4

#: 0.0100 - 0.9800 GS: BM-1 RC: None NANO: No ROLE: Fire Retardant

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Japan - GHS	Carcinogenicity - Category 1B

SUBSTANCE NOTES:

ZINC BORATE ID: 1332-07-6

#: 0.0100 - 0.9800 GS: BM-1 RC: None NANO: No ROLE: Fire Retardant

HAZARDS: AGENCY(IES) WITH WARNINGS:

MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
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SUBSTANCE NOTES:

## 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

CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2013-11-21**

EXPIRY DATE:

CERTIFIER OR LAB: **Berkeley Analytics**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

### LCA

Environmental Product Declaration (EPD) for Industry Generic

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL: **chrome-**

**extension://oemmnrcbldboiebnladdacbfmadadm/https://forbo.blob.core.windows.net/forbodocuments/19696/EPD%20Flotex%20Sheet%20(Pinstripe,%20Cirrus,%20Stratus).pdf**

ISSUE DATE:

EXPIRY DATE:

LAB:

2013-06-10 2018-06-10 Env Inc

CERTIFICATION AND COMPLIANCE NOTES:

## 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.

### FORBO FRS 885 ADHESIVE (VOC 0.00 G/L)

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Standard recommended adhesive used for installation.

### FORBO SUSTAIN 885M ADHESIVE (VOC 0.00 G/L)

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Alternate adhesive that can be used for installation.

### FORBO SUSTAIN 1195 ADHESIVE (VOC 0.00 G/L)

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Alternate adhesive that can be used for installation.

### FORBO FST 1299 ADHESIVE (VOC 0.00 G/L)

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Alternate adhesive that can be used for installation.

### FORBO 660 ADHESIVE (VOC 12.00 G/L)

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Alternative adhesive that can be used with installation.

### FORBO ADHESIVE REMOVER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Can be used for adhesive residue removal post installation.

### NEUTRAL PH CLEANER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Can be used for routine cleaning.

### READY TO USE NEUTRAL PH CLEANER

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Can be used for routine cleaning.

### FORBO WALL BASE

HPD URL: **<http://www.forboflooringna.com>**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Can be used with Flotex Sheet installation using the recommended adhesive.

## Section 5: General Notes

Products lines that fall under the category of Flotex Sheet are the following: Stratus, Cirrus, Pinstripe, Metro, Calgary, Naturals, Vision Digital Print, & Journeys

**MANUFACTURER INFORMATION**

MANUFACTURER: **Forbo Flooring Systems**  
 ADDRESS: **8 Maplewood Drive**  
**Hazle Township PA 18202, United States**  
 WEBSITE: **www.forboflooringna.com**

CONTACT NAME: **Shannon Wolski**  
 TITLE: **Product Support and Education Services Administrator**  
 PHONE: **570-450-0319**  
 EMAIL: **shannon.wolski@forbo.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

<b>Hazard Types</b>		
<b>AQU</b> Aquatic toxicity	<b>GLO</b> Global warming	<b>PHY</b> Physical Hazard (reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/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

<b>GreenScreen (GS)</b>	
<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
<b>BM-2</b> 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-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> Unknown (no data on List Translator Lists)
<b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)	

**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 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.*