Aspen-base ADA Signage by Green Dot Sign, Inc.

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 10 14 00 Signage

PRODUCT DESCRIPTION: This HPD covers all available dimensions of Green Dot ADA signs. The signs are made of FSC aspen wood and 3D printed additive manufacturing material. Raised sign content is directly fused to the wood in a permanent bond.

Section 1: Summary

Nested Method / Product Threshold

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/Impurities Considered in 4 of 4 Materials

Explanation(s) provided for Residuals/Impurities?

- (•) Yes ( ) No

All Substances Above the Threshold Indicated Are:

Characterized (•) Yes Ex/SC ( ) Yes ( ) No

% weight and role provided for all substances except SC substances characterized according to SC guidance.

Screened (•) Yes Ex/SC ( ) Yes ( ) No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

Identified ( ) Yes Ex/SC ( ) Yes (•) No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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

SC:BIO:WOOD [SC:ASPEN Not Screened] FINISHING OIL [TUNG OIL LT-UNK LINSEED OIL, POLYMD., OXIDIZED NoGS BEESWAX, WHITE (APIS MELLIFERA L.) NoGS] INK [2-(2-ETHENOXYETHOXY)ETHYL PROP-2-ENOATE LT-UNK DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE LT-P1 | REP | MUL BUTYL BENZYL PHTHALATE (BBP) LT-1 | CAN | DEL | END | REP | MUL | AQU PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE LT-UNK | SKI] GLUE [UNDISCLOSED LT-UNK UNDISCLOSED BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | RES | SKI UNDISCLOSED LT-P1 | EYE | END]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

HPD prepared using a Nested Materials Inventory with a product threshold at 1,000 ppm. The content inventory includes all colors of printing ink. Green Dot ADA signs contain materials with Special Conditions (biological material) as per the HPDC. Reporting of Biological materials was done according to HPDC Guidelines. Substances present in Green Dot ADA signs, as well as known residuals and impurities, have been disclosed at 1,000 ppm. More details about how residuals and impurities were considered available in the appropriate sections.

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) - N/A

Sustainable forestry: FSC Certification - Chain of Custody (COC)

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ( ) Yes

PREPARER: Vertima
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2019-12-10
PUBLISHED DATE: 2019-12-10
EXPIRY DATE: 2022-12-10

No

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

SC:BIO:WOOD

%: 96.43 - 98.56

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities suspected to be present in virgin wood.

OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial --- Weight percentage may vary as this HPD covers all Green Dot ADA signs (e.g. size of printing).

SC:ASPEN

ID: SC:Bio

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-10**

%: **100.00**

GS: **Not Screened**

RC: **None**

NANO: **No**

ROLE: **Main component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES:
Version: SCBioMats/2018-02-23
Category: Tree-based materials
Identifier: Populus

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

FINISHING OIL

%: 1.10 - 1.80

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Supplier declared, backed by technical/scientific knowledge, that no residuals or impurities are present in their product.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers all Green Dot ADA signs (e.g. size of printing).

TUNG OIL

ID: 8001-20-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **49.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: TSCA Definition 2019: Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid eleostearic. (Aleurites cordata, Compositae).

LINSEED OIL, POLYMD., OXIDIZED

ID: 66071-03-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **44.10 - 49.00** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: TSCA Flag XU (Exempt from Reporting under Chemical Data Reporting Rule)

BEESWAX, WHITE (APIS MELLIFERA L.)

ID: 8012-89-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **2.00** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Waterproofing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: TSCA Definition 2019: The wax obtained from the honeycomb of the bee. It consists primarily of myricyl palmitate, cerotic acid esters and some high-carbon paraffins.

INK

%: 0.34 - 1.54

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Supplier declared that no residuals orimpurities are present in their product; however, no data was available as no such tests were performed on their product.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers all Green Dot ADA signs (e.g. size of printing), and all colors.

2-(2-ETHENOXYETHOXY)ETHYL PROP-2-ENOATE

ID: 86273-46-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **74.90 - 95.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Polymerization**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: TSCA Flag 5E (Subject to the TSCA Section 5(e) Order).
TSCA Flag PMN (a Commenced PMN (Premanufacture Notice) Substance).
TSCA Flag S (Substance is Identified in a Final Significant New Use Rule).

DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE

ID: **75980-60-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **0.00 - 7.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Processing aid**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
REPRODUCTIVE	EU - GHS (H-Statements)	H361f - Suspected of damaging fertility
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: TSCA Flag PMN (a Commenced PMN (Premanufacture Notice) Substance)

BUTYL BENZYL PHTHALATE (BBP)

ID: **85-68-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **0.00 - 1.00** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Plasticizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US EPA - IRIS Carcinogens	(1986) Group C - Possible human Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
ENDOCRINE	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Banned unless Authorised
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Substance of Possible Concern
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Some Evidence of Adverse Effects - Reproductive Toxicity
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development
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
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects
REPRODUCTIVE	GHS - Korea	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	GHS - Japan	Toxic to reproduction - Category 1B [H360]
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
DEVELOPMENTAL	GHS - Australia	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: See materials notes for details.

PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE

ID: **162881-26-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-10**

%: **0.00 - 2.00**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Stabilising**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

SUBSTANCE NOTES: TSCA Flag PMN (a Commenced PMN (Premanufacture Notice) Substance)

GLUE

%: 0.00 - 0.23

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Supplier declared, backed by technical/scientific knowledge, that no residuals, impurities or radioactive content is present in their product.

OTHER MATERIAL NOTES: Weight percentage may vary as this HPD covers all Green Dot ADA signs (e.g. size of printing). The composition of this product is confidential.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-10**

%: **49.70** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Polymer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: TSCA Flag XU (Exempt from Reporting under Chemical Data Reporting Rule).

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-10**

%: **35.70** GS: **BM-4** RC: **None** NANO: **No** ROLE: **Solvant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See materials note for details.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-12-10**

%: **9.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Stabilizer**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: TSCA Flag XU (Exempt from Reporting under Chemical Data Reporting Rule).

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **1.00** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Coalescent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: See materials notes for details.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **0.80** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Catalyst**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
SKIN IRRITATION	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage

SUBSTANCE NOTES: See materials notes for details.

UNDISCLOSED

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-12-10**

%: **0.30** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Coalescent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: See materials notes for details.

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) - N/A**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: Green Dot Sign located in St.Paul, MN.
CERTIFICATE URL:

ISSUE DATE: 2019-12-02 | EXPIRY DATE: | CERTIFIER OR LAB: N/A

CERTIFICATION AND COMPLIANCE NOTES: CDPH does not provide a scenario for signage

SUSTAINABLE FORESTRY — **FSC Certification - Chain of Custody (COC)**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Green Dot Sign, located in Saint-Paul (MN), is certified FSC-COC as a group member of the True North Certified Forest Products Network.
CERTIFICATE URL: https://info.fsc.org/

ISSUE DATE: 2009-05-19 | EXPIRY DATE: 2024-06-05 | CERTIFIER OR LAB: SCS Global Services

CERTIFICATION AND COMPLIANCE NOTES: Certificate Code: SCS-COC-002432 Certificate sub-code: SCS-COC-002432-C License Code: FSC-C019842 Controlled Wood Code: SCS-CW-002432

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.

WOOD PEG — HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
For installation on textured or standard walls for best results. Silicone glue needs to be applied to the four pegs and in a small circle on the sign's back. For more details, visit https://www.greendotsign.com/room-sign-installation-guide/eco-friendly-wood-pegs/

FOAM TAPE — HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
For installation on surfaces that should not be puctured, such as glass, tile, and some doors. Applying a small circle of silicone on the sign back is optional. For more details, visit: https://www.greendotsign.com/room-sign-installation-guide/foam-tape-method/

Section 5: General Notes

ADA sign requirements apply to permanent signage in public buildings. ADA-compliant signs are used for the following purposes: - To identify permanent rooms and spaces - To provide direction to or information about interior spaces - To identify, direct to, or inform about accessible features – Utilizing the International Symbol of Accessibility (ISA) Although some ADA-compliant signs include braille, not all ADA-compliant signs are required to have braille or even pictograms. Braille, raised and visual characters, and pictogram requirements vary based on a sign’s purpose. Changeable and temporary signs, such as directories and menus, are exempt from ADA regulations. For more information on Green Dot Sign's ADA-Compliant Sign Type, visit https://www.greendotsign.com/ada-sign-requirements/#

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Green Dot Sign, Inc.**
ADDRESS: **324 Stonebridge Blvd**
St. Paul Minnesota 55105, USA
WEBSITE: **www.greendotsign.com**

CONTACT NAME: **Simon Nussbaum**
TITLE: **General Manager**
PHONE: **651-447-3046**
EMAIL: **Simon.Nussbaum@GreenDotSign.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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)

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

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.