

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



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 or impurities 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: Solvent

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**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **Green Dot Sign located in St.Paul, MN.**

12-02

CERTIFICATE URL:

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

SUSTAINABLE FORESTRY

FSC Certification - Chain of Custody (COC)

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2009-**

EXPIRY DATE: **2024-**

CERTIFIER OR LAB: **SCS Global**

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.**

05-19

06-05

Services

CERTIFICATE URL: **<https://info.fsc.org/>**

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 punctured, 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/#>

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	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/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
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U 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.