

HPD UNIQUE IDENTIFIER: 20922

CLASSIFICATION: 099735

PRODUCT DESCRIPTION: Two-component aliphatic polyurethane that creates a dry erase environment for interior or exterior surfaces. It allows almost any surface to be converted into a high performance erasable canvas. It is a GREEN/universally compliant coating that is USDA approved and has no hazardous air pollutants.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold level

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

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No
% weight and role provided for all substances.

Threshold Disclosed Per

- Material
- Product

Explanation(s) provided for Residuals/Impurities?
 Yes No

Screened Yes Ex/SC Yes No
All substances screened using Priority Hazard Lists with results disclosed.

Identified Yes Ex/SC Yes No
All substances disclosed by Name (Specific or Generic) and Identifier.

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

DRY ERASE [TALC BM-1 | CAN TRIETHANOLAMINE LT-P1 | RES | END
POLYOXYETHYLATED STEARYL ALCOHOL LT-P1 | MUL HEXANE, 1,6-
DIISOCYANATO-, HOMOPOLYMER LT-P1 BUTOXYPROPANOL LT-UNK |
SKI | EYE CYCLOHEXANAMINE, N,N-DIMETHYL-, COMPDS. WITH 3-
(CYCLOHEXYLAMINO)-1-PROPANESULFONIC ACID-BLOCKED 1,6-
DIISOCYANATOHEXANE HOMOPOLYMER NoGS ETHYLENE GLYCOL
MONOBUTYL ETHER (EGBE) BM-2 | SKI | EYE | END TITANIUM DIOXIDE
LT-1 | CAN | END TRIETHYLENE GLYCOL MONOBUTYL ETHER LT-UNK |
EYE POLY(OXY-1,2-ETHANEDIYL), ALPHA-2-PROPENYL-OMEGA-
HYDROXY LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
Full Inventory Listed

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 5 Regulatory (g/l): 3
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: Yes

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CA SECTION 01350 COMPLIANT
VOC content: ASTM D6886-14e1

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2020-06-15

PUBLISHED DATE: 2020-07-07

EXPIRY DATE: 2023-06-15



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

DRY ERASE

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Data provided is complete and precise. No residuals or impurities.

OTHER PRODUCT NOTES: N/A

TALC

ID: 14807-96-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-06-15

#: 0.5000 - 1.0000

GS: BM-1

RC: None

NANO: No

SUBSTANCE ROLE: Filler

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: high purity, ultra-fine talc

TRIETHANOLAMINE

ID: 102-71-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-06-15

#: 0.5000 - 2.5000

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Buffer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Anionic polyacrylate dispersion

POLYOXYETHYLATED STEARYL ALCOHOL

ID: 9005-00-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-06-15

%: **0.1800 - 0.2500**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Defoamer**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: **emulsion defoamer based on polyether**

HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER

ID: **28182-81-2**

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

HAZARD SCREENING DATE: **2020-06-15**

%: **0.1700 - 0.2900**

GS: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Activator**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Iso**

BUTOXYPROPANOL

ID: **5131-66-8**

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

HAZARD SCREENING DATE: **2020-06-15**

%: **0.0500 - 0.0900**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

SKIN IRRITATION

EU - GHS (H-Statements)

H315 - Causes skin irritation

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

SUBSTANCE NOTES: **polyether modified polymethylalkylsiloxane. Acts as a silicone based leveling agent.**

CYCLOHEXANAMINE, N,N-DIMETHYL-, COMPDS. WITH 3-(CYCLOHEXYLAMINO)-1-PROPANESULFONIC ACID-BLOCKED 1,6-DIISOCYANATOHXANE HOMOPOLYMER

ID: **666723-27-9**

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

HAZARD SCREENING DATE: **2020-06-15**

%: **0.0400 - 0.0730**

GS: **NoGS**

RC:

NANO:

SUBSTANCE ROLE:

None

No

Activator

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **Iso Component**

ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE)

ID: **111-76-2**

%: **0.0300 - 0.0400**GS: **BM-2**RC: **None**NANO: **No**SUBSTANCE ROLE: **Surface modifier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: **polyether modified polymethylalkylsiloxane.****TITANIUM DIOXIDE**ID: **13463-67-7**%: **0.0100 - 11.0000**GS: **LT-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES:

TRIETHYLENE GLYCOL MONOBUTYL ETHERID: **143-22-6**%: **0.0010 - 0.0030**GS: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Viscosity modifier**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage

SUBSTANCE NOTES: **non-ionic rheology additive, low shear****POLY(OXY-1,2-ETHANEDIYL), ALPHA-2-PROPENYL-OMEGA-HYDROXY**ID: **27274-31-3**

#: **0.0004 - 0.0013**

GS: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Surfactant**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: **silicone surfactant, substrate wetting**

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

CA SECTION 01350 COMPLIANT

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2020-**

EXPIRY DATE: **2025-**

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **UL Environment - Marietta, 2211 Newmarket Parkway, Marietta, GA 30067-9399**

04-10

04-10

Environment - Marietta, 2211 Newmarket Parkway, Marietta, GA 30067-9399

CERTIFICATE URL: <https://monopoleinc.com/wp-content/uploads/2017/11/Permashield-200-Premium-Dry-Erase-CDPH-01350-Complaint-1.pdf>

CERTIFICATION AND COMPLIANCE NOTES: **CA SECTION 01350 COMPLIANT Low-emitting materials**

VOC CONTENT

ASTM D6886-14e1

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2020-**

EXPIRY DATE: **2025-**

CERTIFIER OR LAB: **Monopole,**

APPLICABLE FACILITIES: **Monopole, Inc.**

04-10

04-10

Inc.

CERTIFICATE URL:

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.

No accessories are required for this product.

Section 5: General Notes

MONOCHEM DRY ERASE is a two-component aliphatic polyurethane that creates a dry erase environment for interior or exterior surfaces. It allows almost any surface to be converted into a high performance erasable canvas. It is a GREEN/universally compliant coating that is USDA approved and has no hazardous air pollutants. **BASIC USES:** MONOCHEM DRY ERASE is ideal for most drywall, masonite, wood, concrete, cement and prepared metal surfaces. It is highly recommended for a variety of settings like schools (old chalkboards, whiteboards, or walls), offices, warehouse, cafeterias, gymnasiums, homes, etc. **FEATURES:** Universally Compliant, Environmentally Friendly, Low VOC HAPS Free (Hazardous Air Pollutants), No Fumes Suitable for USDA Inspected Facilities Top Tier Chemical, Solvent, Water, and Oil Resistance Outstanding Hardness, Durability and Abrasion Resistance Top Tier Cleanability and Stain Resistance Can be Pigmented to Any Color



MANUFACTURER INFORMATION

MANUFACTURER: **Monopole, Inc.**
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Los Angeles CA 90039, USA
 WEBSITE: **www.monopoleinc.com**

CONTACT NAME: **Angela Wooddell**
 TITLE: **Director of Operations**
 PHONE: **818-500-8585**
 EMAIL: **angela@monopoleinc.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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.