

HPD UNIQUE IDENTIFIER: 26138

CLASSIFICATION: 09 96 00 High-Performance Coatings

PRODUCT DESCRIPTION: INDUSTRIAL STEEL is a direct-to-metal coating developed for the shipping and storage container industry. INDUSTRIAL STEEL displays resistance to corrosion and harsh environmental conditions, impact, abrasions, humidity and UV exposure. It dries hard and very fast for a quick return to service.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i>
☐ Nested Materials Method	☐ 100 ppm	☒ Considered	Characterized ☐ Yes Ex/SC ☒ Yes ☐ No
☒ Basic Method	☐ 1,000 ppm	☐ Partially Considered	% weight and role provided for all substances.
Threshold Disclosed Per	☒ Per GHS SDS	☐ Not Considered	Screened ☐ Yes Ex/SC ☒ Yes ☐ No
☐ Material	☐ Other	Explanation(s) provided for Residuals/Impurities?	<i>All substances screened using Priority Hazard Lists with results disclosed.</i>
☒ Product		☒ Yes ☐ No	Identified ☐ Yes Ex/SC ☒ Yes ☐ No
			<i>All substances disclosed by Name (Specific or Generic) and Identifier.</i>

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

INDUSTRIAL STEEL [STYRENE ACRYLATE NoGS NONYLPHENOL POLYETHYLENE GLYCOL ETHER LT-P1 | END | MUL | REP | AQU | DEV TALC BM-1 | CAN POLYCARBOXYLIC ACID, SODIUM SALT NoGS 1,2-BENZISOTHIAZOLINE-3-ONE LT-P1 | SKI | MUL | AQU | EYE POLYOXYL STEARYL ETHER LT-P1 | MUL URETHANE LT-1 | CAN | MUL | DEV | GEN TITANIUM DIOXIDE (PRIMARY CASRN IS 13463-67-7) LT-1 | CAN | END]

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): 67 Regulatory (g/l): 92

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: ASTM D5116

VOC content: ASTM D6886-14e1

VOC content: ASTM D2369

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?	PREPARER: Self-Prepared	SCREENING DATE: 2021-09-20
☐ Yes	VERIFIER:	PUBLISHED DATE: 2021-09-23
☒ No	VERIFICATION #:	EXPIRY DATE: 2024-09-20

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

INDUSTRIAL STEEL

PRODUCT THRESHOLD: Per GHS SDS		RESIDUALS AND IMPURITIES CONSIDERED: Yes		
RESIDUALS AND IMPURITIES NOTES: Data provide is complete and precise. No residuals or impurities.				
OTHER PRODUCT NOTES:				
STYRENE ACRYLATE			ID: 69804-62-2	
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:46:45		
%: 40.0000 - 50.0000	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: styrene acrylic emulsion				

NONYLPHENOL POLYETHYLENE GLYCOL ETHER					ID: 27177-01-1
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:49:25			
%: 4.0000 - 7.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Solvent	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			
END	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action			
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published			
MUL	US EPA - PPT Chemical Action Plans	TSCA Work Plan chemical - Action Plan in development			
END	ChemSec - SIN List	Endocrine Disruption			
REP	US EPA - PPT Chemical Action Plans	Reproductive effects			
AQU	US EPA - PPT Chemical Action Plans	Highly toxic to aquatic organisms			
DEV	US EPA - PPT Chemical Action Plans	Developmental Effects			
SUBSTANCE NOTES: Cannot locate the correct substance on the inventory filing. Correct CAS number is 34590-94-8					

TALC				ID: 8005-37-6
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:45:32		
%: 1.0000 - 2.0000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Filler

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

POLYCARBOXYLIC ACID, SODIUM SALT

ID: 62601-60-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:42:28		
%: 0.1000 - 0.1500	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Dispersant
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES:				

1,2-BENZISOTHIAZOLINE-3-ONE

ID: 2634-33-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:50:18				
%: 0.0200 - 0.0300		GS: LT-P1		RC: None	NANO: No	SUBSTANCE ROLE: Biocide
HAZARD TYPE		AGENCY AND LIST TITLES		WARNINGS		
SKI		MAK		Sensitizing Substance Sh - Danger of skin sensitization		
MUL		German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
AQU		EU - GHS (H-Statements)		H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]		
SKI		EU - GHS (H-Statements)		H317 - May cause an allergic skin reaction [Skin sensitization - Category 1]		
EYE		EU - GHS (H-Statements)		H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]		
SKI		EU - GHS (H-Statements)		H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]		
SUBSTANCE NOTES:						

POLYOXYL STEARYL ETHER

ID: 9005-00-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:30:32				
%: 0.0040 - 0.0100		GS: LT-P1		RC: None	NANO: No	SUBSTANCE ROLE: Defoamer
HAZARD TYPE		AGENCY AND LIST TITLES		WARNINGS		
MUL		German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters		
SUBSTANCE NOTES:						

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:52:29	
%: 0.0020 - 0.0060		GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man	
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence	
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant	
CAN	CA EPA - Prop 65	Carcinogen	
CAN	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man	
CAN	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen	
CAN	IARC	Group 2a - Agent is probably Carcinogenic to humans	
DEV	CA EPA - Prop 65	Developmental toxicity	
GEN	MAK	Germ Cell Mutagen 3a	
CAN	EU - GHS (H-Statements)	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]	
GEN	GHS - Australia	H340 - May cause genetic defects [Germ cell mutagenicity - Category 1A or 1B]	
CAN	GHS - Korea	H350 - May cause cancer [Carcinogenicity - Category 1]	
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1B]	
GEN	GHS - Korea	H340 - May cause genetic defects [Germ cell mutagenicity - Category 1]	
SUBSTANCE NOTES: CAS number not disclosed on the raw material SDS			
Description: polyurethane resin			

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-09-20 14:44:37	
%: 0.0000 - 19.0000		GS: LT-1	RC: None NANO: No SUBSTANCE ROLE: Pigment

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CAN	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer [Carcinogenicity - Category 2]
SUBSTANCE NOTES: Clear Base has zero Titanium Dioxide White Base has 15-19% Titanium Dioxide		

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		ASTM D5116	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Monopole, Inc. 4661 Alger Street Los Angeles, CA 90039 CERTIFICATE URL:	ISSUE DATE: 2021-09-23	EXPIRY DATE: 2023-09-23	CERTIFIER OR LAB: Monopole, Inc.
CERTIFICATION AND COMPLIANCE NOTES: Monopole is in the process of conducting VOC Emission Testing. VOC Content is less than 190 g/L			
VOC CONTENT		ASTM D6886-14e1	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Monopole, Inc. 4661 Alger Street Los Angeles, CA 90039 CERTIFICATE URL:	ISSUE DATE: 2021-09-20	EXPIRY DATE: 2023-09-20	CERTIFIER OR LAB: Monopole In-House Laboratory
CERTIFICATION AND COMPLIANCE NOTES: Standard test method determination of the weight percentage individual volatile organic compounds in water-bourne air-dry coatings by gas chromatography. VOC Coating1: 92 g/L; VOC Material2: 67 g/L. Actual VOC: 175.8 g/L (rG).			
VOC CONTENT		ASTM D2369	
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Monopole, Inc. 4661 Alger Street Los Angeles, CA 90039 CERTIFICATE URL:	ISSUE DATE: 2021-09-23	EXPIRY DATE: 2025-09-23	CERTIFIER OR LAB: Monopole, Inc.
CERTIFICATION AND COMPLIANCE NOTES: Standard Test Method for Volatile Content of Coatings VOC Content: 175 g/L			

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

INDUSTRIAL STEEL displays resistance to corrosion and harsh environmental conditions, impact, abrasions, humidity and UV exposure. It dries hard and very fast for a quick return to service. It can be applied in one coat over properly prepared or primed substrates; some darker colors may require a second coat.

COMMON USES:

Structural Steel, Aluminum, Piping, Intermodel Containers, Tank Cars, Freight Cars, Bridges, Storage Tanks, Machinery/Equipment

Sheen Levels: Gloss:60°-70°; Low-Gloss: 25°-35°; Matte: 5°-15°

Bases: White, Neutral

White Base: 4 Oz/Gal Short-Fill

Gloss: #2200-50 Low-Gloss: #2100-50 Matte: #2300-50

Neutral Base: 12 Oz/Gal Short-Fill

Gloss #2200-20 Low-Gloss #2100-20 Matte: #2300-20

MANUFACTURER INFORMATION

MANUFACTURER: Monopole, Inc.
ADDRESS: 4661 Alger Street
 Los Angeles CA 90039, United States
WEBSITE: www.monopoleinc.com

CONTACT NAME: Angela Wooddell
TITLE: Leed Administrator
PHONE: 18185008585
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)	
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)	NoGS No GreenScreen.

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.