Solid Aluminum
by MOZ Designs, Inc

CLASSIFICATION: 05 76 00

PRODUCT DESCRIPTION: THIS HPD COVERS MOZ SOLID LAMINATES, ENGRAVINGS PANELS OF RECYCLED ALUMINUM SHEET PRODUCTS. MATERIALS AS WELL AS COATINGS VARYING IN A RANGE OF THICKNESSES DEPENDING ON APPLICATION AND WHETHER INTERIOR VS EXTERIOR.

Health Product Declaration v2.0

created via: HPDC Online Builder

Section 1: Summary

CONTENT INVENTORY

Threshold per material
- (●) 100 ppm
- (●) 1,000 ppm
- (●) Per GHS SDS
- ( ) Per OSHA MSDS
- ( ) Other

Residuals and impurities considered in 8 of 8 materials
- (●) see Section 2: Material Notes
- (●) see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	(●)	( )
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	(●)	( )
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	(●)	( )
Are all substances disclosed by Name (Specific or Generic) and Identifier?	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

ALUMINUM [ALUMINUM LT-P1 | RES | END | PHY MAGNESIUM LT-UNK | PHY ZINC LT-P1 | AQU | MUL | PHY MANGANESE LT-P1 | END SILICON LT-UNK IRON LT-UNK CHROMIUM LT-UNK | RES *NICKEL* LT-1 | MAM | CAN | SKI | AQU | RES | MUL *LEAD* LT-1 | MAM | AQU | DEV | REP | CAN | PBT | MUL | END | GEN] TUFFCOAT OVERLAMINATE [POLYVINYL CHLORIDE (PVC) LT-UNK | RES 2-PROPENOIC ACID, POLYMER WITH ETHENYL ACETATE, 2-ETHYLHEXYL 2-PROPENOATE AND 2-HYDROXYETHYL 2-PROPENOATE LT-UNK *VINYL CHLORIDE (VCM)* LT-1 | CAN | MUL | PHY] DURAFILM LAMINATE [POLYVINYL CHLORIDE (PVC) LT-UNK | RES VINYL ACETATE, POLYMER WITH N-BUTYL ACRYLATE LT-UNK *VINYL ACETATE* LT-P1 | CAN | END | MUL | PHY] POWDER COAT [ACRYLONITRILE -METHYL-METHACRYLATE -VINYLIDENE CHLORIDE COPOLYMER LT-P1 | END TITANIUM DIOXIDE LT-1 | CAN TRIGLYCIDYL ISOCYANURATE (TGIC) LT-1 | MAM | EYE | SKI | GEN | AQU | RES | MUL PARAFFIN LT-UNK CALCIUM CARBONATE BM-3 BARIUM SULFATE BM-2 | CAN LIMESTONE; CALCIUM CARBONATE LT-UNK CARBON BLACK LT-1 | CAN QUARTZ LT-1 | CAN POLYESTER UNK] POLYCOAT [PARACHLOROBENZOTRIFLUORIDE (PCBTF) LT-P1 | MUL ACETONE BM-2 | EYE | END | DEV | PHY HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER) LT-UNK DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER; LT-P1 | PBT | MUL STYRENE BM-1 | MAM | EYE | SKI | RES | CAN | END | DEV | MUL XYLENES BM-1 | MAM | SKI | END | MUL ETHYLBENZENE LT-1 | MAM | CAN | PHY SILICA GEL LT-UNK HYDRODESULFURIZED HEAVY NAPHTHA LT-1 | CAN | GEN | PBT | MAM | MUL AROMATIC NAPHTHA, TYPE 1 LT-1 | CAN | GEN | MAM | MUL] PVDF COATING [POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) LT-UNK TOLUENE BM-1 | MAM | SKI | DEV | REP | END | MUL | PHY PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA) LT-UNK ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) LT-P1 | MAM | EYE | SKI | END | CAN DIMETHYL PHTHALATE (DMP) LT-UNK | MUL | REP XYLENES BM-1 | MAM | SKI | END | MUL TITANIUM DIOXIDE LT-1 | CAN ETHYLBENZENE LT-1 | MAM | CAN | PHY C.I. PIGMENT BLACK 28 LT-UNK C.I. PIGMENT BLUE 36 LT-UNK MICA LT-UNK 2-BUTOXYETHYL ACETATE LT-UNK | MAM | CAN] UV CURABLE INKS [1,6-HEXANEDIOL DIACRYLATE LT-P1 | EYE | SKI | MUL BISPHENOL A ETHOXYLATE DIACRYLATE LT-P1 | END VINYL CAPROLACTAM LT-UNK HYDROXYCYCLOHEXYL PHENYL KETONE LT-UNK CARBON BLACK LT-1 | CAN] DIES AND SHADES [POLYCOAT] [METHYL ETHYL KETONE BM-2 | EYE | END | PHY PROPYLENE GLYCOL MONOMETHYL ETHER (PGME) LT-UNK CI SOLVENT BLACK 27 LT-UNK | RES | SKI AZOCOLOURANTS AND AZODYES UNK CHROMATE(1-), BIS[4-HYDROXY-3-[(2-HYDROXY- 1-NAPHTHALENYL)AZO]BENZENESULFONAMIDATO(2-)]-, HYDROGEN LT-UNK C.I. PIGMENT BLUE 15 BM-3 COBALT COMPOUNDS LT-1 | RES | CAN | GEN AMINES, C10-14-BRANCHED AND LINEAR ALKYL, BIS[2,4-DIHYDRO-4-[(2-HYDROXY- 5-NITROPHENYL)AZO]-5-METHYL-2-PHENYL-3H-PYRAZOL -3-ONATO(2-)]CHROMATE(1-) (1:1) LT-UNK AMINES, C10-14-BRANCHED AND LINEAR ALKYL, BIS[2,4-DIHYDRO-4-[(2-HYDROXY- 4-NITROPHENYL)AZO]-5-METHYL-2-PHENYL-3H-PYRAZOL -3-ONATO(2-)]CHROMATE(1-) LT-UNK COPPER LT-UNK CYCLOHEXANONE LT-P1 | MAM | END | CAN AMINES, C10-14-BRANCHED AND LINEAR ALKYL, [2,4-DIHYDRO-4-[(2-HYDROXY- 5-NITROPHENYL)AZO]-5-METHYL-2-PHENYL-3H-PYRAZOL -3-ONATO(2-)][2-[(4,5-DIHYDRO-3-METHYL-5-OXO-1-PHENY L-1H-PYRAZOL-4-YL)AZO]BENZOATO(2-)]CHROMATE(1-) LT-UNK 2-METHOXY-1-PROPANOL LT-1 | SKI | EYE | DEV | REP | MUL]

Number of Greenscreen BM-4/BM3 contents..... 2

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

Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

This HPD was created using the Material Content Inventory. MOZ Designs's Solid Aluminum products have been screened at a 1000 ppm level so that all intentional materials and known potential residuals/impurities that could have existed in raw materials, at that level, have been disclosed.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE
VOC emissions: Inherently non-emitting source per LEED® - Unfinished/Powder-coated Metals only

See Section 3 for additional listings.

◉ Self-Published*	VERIFIER:	SCREENING DATE: February 2, 2017	EXPIRY DATE*: February 2, 2020
○ Third Party Verified	VERIFICATION #:	RELEASE DATE: February 6, 2017	* or within 3 months of significant change in product contents

**See HPDC website for details*

Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

ALUMINUM **%: 91.8200 - 99.1400** **HPD URL:**

Inventory Threshold: 100 ppm Residuals Considered: Yes

Material Notes: Aluminum 5052 is used as base material. Manufacturer statement: "The health effects listed below are not likely to occur unless processing of this product generates dusts or fumes. The following statements summarize the health effects generally expected in cases of overexposures. User specific situations should be assessed by a qualified individual." The aluminum supplied to MOZ Designs contains both post-consumer and pre-consumer recycled content.

ALUMINUM ID: 7429-90-5

%: 84.9000	GS: LT-P1	RC: Both	NANO: NO	ROLE: Main element

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: See Material Notes.

MAGNESIUM ID: 7439-95-4

%: 6.6000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Mechanical and physical properties enhancer

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Substance present at levels inferior to 6.6 w% in final aluminum product. See Material Notes.

ZINC ID: 7440-66-6

%: 4.0000	GS: LT-P1	RC: UNK	NANO: NO	ROLE: Mechanical and physical properties enhancer

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
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
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Substance present at levels inferior to 4 w% in final aluminum product. See Material Notes.

MANGANESE ID: 7439-96-5

%: 1.9000	GS: LT-P1	RC: UNK	NANO: NO	ROLE: Mechanical and physical properties enhancer

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Substance present at levels inferior to 1.9 w% in final aluminum product. See Material Notes.

SILICON ID: 7440-21-3

%: 1.5000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Mechanical and physical properties enhancer

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance present at levels inferior to 1.5 w% in final aluminum product. See Material Notes.

IRON ID: 7439-89-6

%: 1.3000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Mechanical and physical properties enhancer

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Substance present at levels inferior to 1.3 w% in final aluminum product. See Material Notes.

CHROMIUM ID: 7440-47-3

%: 1.1000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Mechanical and physical properties enhancer

HAZARDS:		AGENCY(IES) WITH WARNINGS:
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: Substance present at levels inferior to 1.1 w% in final aluminum product. See Material Notes.

NICKEL ID: 7440-02-0

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: NO	ROLE: Impurity/Residual

HAZARDS:		AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Substance present at levels inferior to 0.1 w% in final aluminum product. Substance present as impurity [not intentionally added]]that could potentially have entered through the recycle stream. See Material Notes.

LEAD ID: 7439-92-1

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: NO	ROLE: Impurity/Residual

HAZARDS:		**AGENCY(IES) WITH WARNINGS:**
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT)	Priority PBT

PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
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 - GHS (H-Statements)	H360Fd - May damage fertility. Suspected of damaging the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to 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
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES: Substance present at levels inferior to 0.02 w% in final aluminum product. Substance present as impurity [not intentionally added]]that could potentially have entered through the recycle stream. See Material Notes.

TUFFCOAT OVERLAMINATE **%: 2.7700 - 8.1800** **HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes: Alternative finish. 6 mil clear vinyl overlaminate. The overlaminate contains a PVC film and an acrylic based adhesive.

POLYVINYL CHLORIDE (PVC) ID: 9002-86-2

%: 82.0000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Main material

HAZARDS:		**AGENCY(IES) WITH WARNINGS:**
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Flexible PVC.

2-PROPENOIC ACID, POLYMER WITH ETHENYL ACETATE, 2-ETHYLHEXYL 2-PROPENOATE AND 2-HYDROXYETHYL 2-PROPENOATE ID: 50862-46-9

%: 18.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Adhesive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

VINYL CHLORIDE (VCM) ID: 75-01-4

%: Impurity/Residual	GS: LT-1	RC: UNK	NANO: NO	ROLE: Impurity/Residual

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	EU - R-phrases	R45 - May cause cancer
CANCER	US EPA - IRIS Carcinogens	(1996) Known/likely human Carcinogen
CANCER	US EPA - IRIS Carcinogens	(1986) Group A - Human Carcinogen
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 1 - Substances known to be Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	EU - Annex VI CMRs	Carcinogen Category 1A - Known human Carcinogen based on human evidence
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H220 - Extremely flammable gas

SUBSTANCE NOTES: Vinyl Chloride Monomer present in the vinyl film at a level inferior to 1 ppm.

DURAFILM LAMINATE **%: 2.0900 - 6.2600** **HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes: Alternative finish. Clear 5 mil embossed vinyl laminate. The laminate is composed of PVC and acrylic adhesive.

POLYVINYL CHLORIDE (PVC) ID: 9002-86-2

%: 80.0000	GS: LT-UNK	RC: UNK	NANO: NO	ROLE: Main material

HAZARDS:		AGENCY(IES) WITH WARNINGS:
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Flexible PVC.

VINYL ACETATE, POLYMER WITH N-BUTYL ACRYLATE ID: 25067-01-0

%: 20.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Adhesive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for Vinyl Acrylic Emulsion adhesive.

VINYL ACETATE ID: 108-05-4

%: Impurity/Residual	GS: LT-P1	RC: UNK	NANO: NO	ROLE: Impurity/Residual

HAZARDS:		AGENCY(IES) WITH WARNINGS:
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: Residual from adhesive. Present in the final laminate at levels between 0.1 and 0.5 w%.

POWDER COAT **%: 1.1500 - 3.5200** **HPD URL:**

Inventory Threshold: Per GHS SDS Residuals Considered: Yes

Material Notes: Alternative finish. Range comes from variation in composition for the different powder coatings available.

ACRYLONITRILE -METHYL-METHACRYLATE -VINYLIDENE CHLORIDE COPOLYMER ID: 25036-25-3

%: 0.0000 - 75.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Binder

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	EU - Priority Endocrine Disrupters	Category 1 - In vivo evidence of Endocrine Disruption Activity

SUBSTANCE NOTES: See Material Notes. Binder in two out of three powder coatings.

TITANIUM DIOXIDE ID: 13463-67-7

%: 0.0000 - 10.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH 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
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: See Material Notes.

TRIGLYCIDYL ISOCYANURATE (TGIC) ID: 2451-62-9

%: 0.0000 - 4.8000	GS: LT-1	RC: None	NANO: NO	ROLE: Crosslinker

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed
EYE IRRITATION	EU - R-phrases	R41 - Risk of serious damage to eyes
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
GENE MUTATION	EU - R-phrases	R46 - May cause heritable genetic damage
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms

RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Candidate list
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B

SUBSTANCE NOTES: See Material Notes.

PARAFFIN ID: 8002-74-2

%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Paraffin waxes and Hydrocarbon waxes. See Material Notes.

CALCIUM CARBONATE ID: 471-34-1

%: 0.0000 - 20.0000	GS: BM-3	RC: None	NANO: NO	ROLE: Filler

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

BARIUM SULFATE ID: 7727-43-7

%: 0.0000 - 20.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Filler

HAZARDS:		AGENCY(IES) WITH WARNINGS:
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: See Material Notes.

LIMESTONE; CALCIUM CARBONATE ID: 1317-65-3

%: 0.0000 - 20.0000	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: See Material Notes.

CARBON BLACK ID: 1333-86-4

%: 0.0000 - 5.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:		AGENCY(IES) WITH 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
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: See Material Notes.

QUARTZ ID: 14808-60-7

%: 0.0000 - 1.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Filler

HAZARDS:		AGENCY(IES) WITH WARNINGS:
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1: Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)

CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man

SUBSTANCE NOTES: See Material Notes.

POLYESTER ID: 113669-95-7

%: 0.0000 - 75.0000	GS: UNK	RC: None	NANO: NO	ROLE: Binder

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes. Approximation for non-disclosed polyester composing one of the three powder coatings.

POLYCOAT **%: 1.0800 - 3.3200** **HPD URL:**

Inventory Threshold: Per GHS SDS Residuals Considered: Yes

Material Notes: Polyurethane coatings are composed of 2 parts. The composition is disclosed based on the mix ratio recommended by the manufacturer 4:1. Ranges are given to withheld proprietary data.

PARACHLOROBENZOTRIFLUORIDE (PCBTF) ID: 98-56-6

%: 30.0000 - 44.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Part A and B. See Material Notes.

ACETONE ID: 67-64-1

%: 16.0000 - 32.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
DEVELOPMENTAL	MAK	Pregnancy Risk Group B
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: Part A. See Material Notes.

HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER) ID: 28182-81-2

%: 8.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Reagent

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Part B (catalyst). See Material Notes.

DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER; ID: 41556-26-7

%: 0.0800 - 0.8000	GS: LT-P1	RC: None	NANO: NO	ROLE: Reagent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Part A. See Material Notes.

STYRENE ID: 100-42-5

%: 0.0800 - 0.2400	GS: BM-1	RC: None	NANO: NO	ROLE: Reagent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
ENDOCRINE	EU - Priority Endocrine Disrupters	Category 1 - In vivo evidence of Endocrine Disruption Activity
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
DEVELOPMENTAL	EU - GHS (H-Statements)	H361d - Suspected of damaging the unborn child

ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
ENDOCRINE	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 5 - Genotoxic carcinogen with very slight risk under MAK/BAT levels

SUBSTANCE NOTES: Part A. See Material Notes.

XYLENES ID: 1330-20-7

%: 0.0000 - 4.0000	GS: BM-1	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Part A. See Material Notes.

ETHYLBENZENE ID: 100-41-4

%: 0.0000 - 2.4000	GS: LT-1	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: Part A. See Material Notes.

SILICA GEL ID: 112926-00-8

%: 0.0000 - 8.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Reagent

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Part A. See Material Notes.

HYDRODESULFURIZED HEAVY NAPHTHA ID: 64742-82-1

%: 0.0000 - 0.6000	GS: LT-1	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**	
CANCER	EU - R-phrases	R45 - May cause cancer
GENE MUTATION	EU - R-phrases	R46 - May cause heritable genetic damage
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B

SUBSTANCE NOTES: Part B. See Material Notes.

AROMATIC NAPHTHA, TYPE 1 ID: 64742-95-6

%: 0.0000 - 0.6000 GS: LT-1 RC: None NANO: NO ROLE: Solvent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
CANCER	EU - R-phrases	R45 - May cause cancer
GENE MUTATION	EU - R-phrases	R46 - May cause heritable genetic damage
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B

SUBSTANCE NOTES: Part B. See Material Notes.

PVDF COATING **%: 0.8600 - 2.6300** **HPD URL:**

Inventory Threshold: Per GHS SDS Residuals Considered: Yes

Material Notes: Alternative finish. Range comes from variation in composition for the different PVDF coatings available.

POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) ID: 24937-79-9

%: 20.0000 - 50.0000 GS: LT-UNK RC: None NANO: NO ROLE: Binder

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

TOLUENE ID: 108-88-3

%: 10.0000 - 20.0000	GS: BM-1	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
DEVELOPMENTAL	EU - R-phrases	R63 - Possible risk of harm to the unborn child
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
DEVELOPMENTAL	EU - GHS (H-Statements)	H361d - Suspected of damaging the unborn child
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: See Material Notes.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA) ID: 108-65-6

%: 10.0000 - 20.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) ID: 111-76-2

%: 5.0000 - 10.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
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
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: See Material Notes.

DIMETHYL PHTHALATE (DMP) ID: 131-11-3

%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**	
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
REPRODUCTIVE	US EPA - PPT Chemical Action Plans	Reproductive effects

SUBSTANCE NOTES: See Material Notes.

XYLENES ID: 1330-20-7

%: 1.0000 - 9.2000	GS: BM-1	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: See Material Notes.

TITANIUM DIOXIDE ID: 13463-67-7

%: 0.1000 - 5.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH 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
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: See Material Notes.

ETHYLBENZENE ID: 100-41-4

%: 0.1000 - 1.6000	GS: LT-1	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: See Material Notes.

C.I. PIGMENT BLACK 28 ID: 68186-91-4

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:

None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

C.I. PIGMENT BLUE 36 ID: 68187-11-1

%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

MICA ID: 12001-26-2

%: 0.0000 - 10.0000	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: See Material Notes.

2-BUTOXYETHYL ACETATE ID: 112-07-2

%: 0.0000 - 3.7000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:		AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R21 - Harmful in Contact with Skin
CANCER	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: See Material Notes.

UV CURABLE INKS **%: 0.0000 - 1.0000** **HPD URL:**

Inventory Threshold: Per GHS SDS Residuals Considered: Yes

Material Notes: UV curable inks are used only in digital imagery. All base colors and their potential hazards are disclosed, meaning that all digitally-printed images are covered in the present HPD. Ranges are given to protect proprietary composition.

1,6-HEXANEDIOL DIACRYLATE ID: 13048-33-4

%: 10.0000 - 50.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Binder

HAZARDS:		AGENCY(IES) WITH WARNINGS:
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
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
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: See Material Notes.

BISPHENOL A ETHOXYLATE DIACRYLATE ID: 64401-02-1

%: 5.0000 - 30.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Binder

HAZARDS:		AGENCY(IES) WITH WARNINGS:
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Approximation for Alkoxylated Monomer Diacrylate.

VINYL CAPROLACTAM ID: 2235-00-9

%: 5.0000 - 20.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Reactive diluent

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

HYDROXYCYCLOHEXYL PHENYL KETONE ID: 947-19-3

%: 1.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Photoinitiator

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation of photoinitiator blend disclosed on SDS. Generic photoinitiator used for UV curable ink. Source: J. A. Arceneaux and K. Willard, UV&EB Chemistry and Technology, RadTech Printer's Guide. 8pp.

CARBON BLACK ID: 1333-86-4

%: 0.0000 - 5.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH 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
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: See Material Notes.

DIES AND SHADES [POLYCOAT] **%: 0.0000 - 1.0000** **HPD URL:**

Inventory Threshold: Per GHS SDS Residuals Considered: Yes

Material Notes: Dyes and shades are used only with polycoat [alternate finish]. All base colors and their potential hazards are disclosed, meaning that the entire palette is covered in the present HPD. Ranges come from a variation in composition due to the different colors.

METHYL ETHYL KETONE ID: 78-93-3

%: 30.0000 - 60.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
EYE IRRITATION	EU - R-phrases	R36 - Irritating to eyes
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: See Material Notes.

PROPYLENE GLYCOL MONOMETHYL ETHER (PGME) ID: 107-98-2

%: 1.0000 - 60.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

CI SOLVENT BLACK 27 ID: 12237-22-8

%: 0.0000 - 7.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:		AGENCY(IES) WITH WARNINGS:
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: See Material Notes.

AZOCOLOURANTS AND AZODYES ID:

%: 0.0000 - 10.0000	GS: UNK	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for C.I. Solvent Red 91 (CAS# 61901-92-6). Not present in Pharos database.

CHROMATE(1-), BIS[4-HYDROXY-3-[(2-HYDROXY- 1-NAPHTHALENYL)AZO]BENZENESULFONAMIDATO(2-)]-, HYDROGEN ID: 38833-00-0

%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for Azo Chromium dye.

C.I. PIGMENT BLUE 15 ID: 147-14-8

%: 0.0000 - 30.0000	GS: BM-3	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Approximation for Chromium complex / Cu Phthalocyanine Mix.

COBALT COMPOUNDS ID:

%: 0.0000 - 5.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:		AGENCY(IES) WITH WARNINGS:
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: See Material Notes.

AMINES, C10-14-BRANCHED AND LINEAR ALKYL, BIS[2,4-DIHYDRO-4-[(2-HYDROXY-5-NITROPHENYL)AZO]-5-METHYL-2-PHENYL-3H-PYRAZOL -3-ONATO(2-)]CHROMATE(1-) (1:1) ID: 84961-40-0

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

AMINES, C10-14-BRANCHED AND LINEAR ALKYL, BIS[2,4-DIHYDRO-4-[(2-HYDROXY-4-NITROPHENYL)AZO]-5-METHYL-2-PHENYL-3H-PYRAZOL -3-ONATO(2-)]CHROMATE(1-) ID: 85029-57-8

%: 0.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

COPPER ID: 7440-50-8

%: 0.0000 - 1.5000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Pigment

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

CYCLOHEXANONE ID: 108-94-1

%: 0.0000 - 40.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Solvent

HAZARDS:		AGENCY(IES) WITH WARNINGS:
MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: See Material Notes.

AMINES, C10-14-BRANCHED AND LINEAR ALKYL, [2,4-DIHYDRO-4-[(2-HYDROXY- 5-NITROPHENYL)AZO]-5-METHYL-2-PHENYL-3H-PYRAZOL -3-ONATO(2-)][2-[(4,5-DIHYDRO-3-METHYL-5-OXO-1-PHENY L-1H-PYRAZOL-4-YL)AZO]BENZOATO(2-)]CHROMATE(1-) ID: 85029-59-0

%: 0.0000 - 30.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Additive

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: See Material Notes.

2-METHOXY-1-PROPANOL ID: 1589-47-5

%: 0.0000 - 1.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Additive

HAZARDS:		AGENCY(IES) WITH WARNINGS:
SKIN IRRITATION	EU - R-phrases	R38 - Irritating to skin
EYE IRRITATION	EU - R-phrases	R41 - Risk of serious damage to eyes
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
DEVELOPMENTAL	EU - GHS (H-Statements)	H360D - May damage the unborn child
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
DEVELOPMENTAL	MAK	Pregnancy Risk Group B
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B

SUBSTANCE NOTES: See Material 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

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: All
CERTIFICATE URL:
CERTIFICATION AND COMPLIANCE NOTES: Inherently nonemitting sources: Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood flooring) are considered fully compliant without any VOC emissions testing if they do not include integral organicbased surface coatings, binders, or sealants.

Inherently non-emitting source per LEED® - Unfinished/Powder-coated Metals only

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
0000-00-00	0000-00-00	N/A

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.

ALUMINUM TRIMS AND FRAMING **HPD URL: No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: More information available here: http://mozdesigns.com/spec_library/Moz-Trims&Framing.pdf

Section 5: General Notes

Not all finishes disclosed in this HPD are used simultaneously. Option 1: Tuffcoat, Option 2: Durafilm, Option 3: Polycoat , Option 4: Powder coating, Option 5: PVDF Coating. When specified, dyes/shades or UV curable ink are used with Option 1, Option 2 or Option 3.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: MOZ Designs, Inc

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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classi cation 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 Unspeci ed (insu cient 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)
UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)
Independent Lab Manufacturer's self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier
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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.