DIZAL

DIGITALLY PRINTED ALUMINUM SIDING

ENVIRONMENTAL DATA SHEET

ALUMINUM SIDING

Our aluminum siding replicates exclusive authentic textures of various materials from a high definition digital ink-jet printing process.

Models:

3'' V Groove Panel
4'' V Groove Panel
4'' Flat Panel
6'' V Groove Panel
6'' Channel Panel
6'' Flat Panel
8'' Flat Panel

VALIDATED ECO-DECLARATION

Product's contribution to LEED® v4

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PRODUCT SPECIFICATIONS

Reference
3'' ë DíĢƃģtĀğĪtfĢűģë
ðļļ ë DíĢƃģtĀğĪtfĢűģë
ðļļ CĀƃtĀğĪtfĢűģC
ôļļ ë DíĢƃģtĀğĪtfĢűģë
ôļļ / ŮĀ˝ğtĀğĪtfĢűģ/
ôļļ CĀƃtĀğĪtfĢűģC
óļļ CĀƃtĀğĪtfĢűģC

ĊúĀ˚ ĀЬĄĀĚƃЬƒűŤĢĘĀƃĢ
(Quebec) G2C 1Y6 CANADA

Composition
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ATTRIBUTES

Recycled content
Pre-consumer: 3.0%
Post-consumer: 9.9% - 10.0%

Sourcing of raw materials
The extraction location has been documented for 13.0% of raw materials used in manufacturing the final product, based on a weight ratio.

FSC Certification® -

Rapidly renewable materials -

Biobased materials -

ENVIRONMENTAL IMPACTS

Life Cycle Assessment -

Product's carbon footprint -

Environmental Product Declaration -

INGREDIENTS AND EMISSIONS

Declaration of chemical ingredients -

Type of declaration HPD® version 2.0 Health Product Declaration®

Emission test -

VOCs 0 g/L - 29 g/L
(Primer, inks and varnish factory applied)

Formaldehyde -

Others -

TECHNICAL PERFORMANCES

Performance tests
Abrasion Resistance (ASTM D4060)
Wind Load Resistance (ISO 7895) (ASTM E330)
Impact Resistance (ISO 7895)
Fading (ASTM G155)
Graffiti Resistance (ASTM D6578)
Burning Characteristics
(ASTM E84 |CAN/ULC-S102 | CAN/ULC-S114-05/NFPA 285)
Adhesion Testing (ASTM D3359)
Florida Building Code (FBC) Compliance

Expected life -

MANUFACTURER'S ENVIRONMENTAL MANAGEMENT

Certification ISO 14001 -

Extended Producer Responsability -
(Take Back Program)

Corporate Sustainability Reporting -
(CSR : GRI, ISO 26000, BNQ 21000 or other)

CERTIFICATIONS AND CONFORMITY REPORTS

DiZal is a manufacturing company specialized in design, production and marketing of new high-end models of aluminum siding. Our technology replicates exclusive authentic textures of various materials from a high definition digital ink-jet printing process.

4000 Jean-Marchand street, suite 108, Quebec, Quebec G2C 1Y6 CANADA
www.dizal.com | info@dizal.com

MasterFormat®: **07 46 13**
Validated Eco-Declaration: **EDV16-0930-01**
Original issue date: **2016/09**
Period of validity: **201ó/09** to **201Ò/09**

ENVIRONMENTAL DATA SHEET
ALUMINUM SIDING

DIZAL
DIGITALLY PRINTED ALUMINUM SIDING

Models:
3'' V Groove / 4" V Groove or Flat / 6'' V Groove, Channel or Flat / 8'' Flat

Dimensions:
Length: 16' (4.88 m)
Height: 3" (7.2cm), 4" (10.16 cm), 6'' (15.24 cm), 8'' (20.32 cm)

Characteristics:
High definition digital ink-jet printing
Protective coating against UV and discoloration Horizontal and vertical installation / Maintenance free Wide choice of colors and textures / Finishing accessories

ATTRIBUTES

RECYCLED CONTENT

Final products	Weight ratio	Pre-consumer	Post-consumer
Printed panels 3", 4'' , 6 " or 8"	100%	3.0%	9.9%
Printed accessories	100%	3.0%	9.9%
Unprinted accessories	100%	3.0%	10.0%

Component (with recycled content)	Weight ratio	Pre-consumer	Post-consumer
Aluminum	99% - 100%	3.0%	10.0%

Accessories of 12' (3.66 m) in length have been assessed. Printed accessories available with a matching finish are: Starter Strip, Base, Short Cap, Long Cap, Double Cap and Outside Corner Base. Unprinted accessories without a finish are: Double Base and Outside Corner Cap.

Validated Eco-Declaration - Recycled Content
Methodology: on-site audit, supply chain evaluation, analysis and validation of the recycled content data according to the weight ratio of each of the components used in manufacturing the final product.
Vertima's procedure: VERT-032008-01, Second Edition.

SOURCING OF RAW MATERIALS

Weight ratio	Final manufacturing location
100%	Quebec, Quebec G2C 1Y6 CANADA

Validated Eco-Declaration - Sourcing of raw materials
Methodology: on-site audit, supply chain evaluation, analysis and validation of the sourcing of raw materials data according to the weight ratio of each of the components used in manufacturing the final product.
Vertima's procedure: VERT-032008-02, Second Edition.

Components	Weight ratio	Extraction locations	Transportation
Aluminum (recycled)	13.0%*	Toronto	Camion
Aluminum	86.0%	N/D	N/D
Primer	0.3%	N/D	N/D
Inks	0.3%	N/D	N/D
Varnish	0.3%	N/D	N/D

*The extraction locations have been documented for 13.0% of materials of each components on the final product, based on their weight ratio.

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EDV16-0930-01
Period of validity:
2018/09 to **2019/09**

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ATTRIBUTES (CONTINUED)

SOURCING OF RAW MATERIALS (CONTINUED)

1. EXTRACTION LOCATIONS OF RECYCLED ALUMINUM

Pre-consumer recycled content:
Canada: Toronto (Ontario), Becancour and Jonquiere (Quebec)

Post-consumer recycled content:
Canada: Toronto (Ontario) (Within a 500 miles (800 km) radius from Toronto mill)

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Validated Eco-Declaration:
EDV16-0930-01
Period of validity:
2018/09 to **2019/09**

INGREDIENTS AND EMISSIONS

DECLARATION OF CHEMICAL INGREDIENTS

Type of declaration: Health Product Declaration® (HPD®) version 2.0

Period of validity: September 27, 2016 to September 27, 2019

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists[1] and the GreenScreen for Safer Chemicals®,[2].

Health Product Declaration® URL: Available shortly

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Declaration: ☑ Self-declared ☐ Third Party

Ingredients inventory threshold: 1,000 ppm

Full disclosure of intentional ingredients: Yes

Full disclosure of known hazards: Yes

Hazards associated with the product ingredients

This HPD Standard describes a declaration of product content and direct health hazards associated with exposure to its individual contents. The Declaration is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

Highest concern *GreenScreen®* Benchmark: List Translator Benchmark 1[3]

■ PBT (persitent, bioaccumulative and toxic)	☐ Respiratory	☐ Land toxicity
■ Cancer	☐ Neurotoxicity	■ Physical hazard
■ Gene Mutation	■ Mammal	☐ Global warning
■ Development	■ Skin	☐ Ozone depletion
■ Reproductive	■ Eye	■ Multiple
■ Endocrine	■ Aquatic toxicity	☐ Unknown

[1]Please refer to Annex D of HPD Open Standard Version 2.0, September 10th 2015. http://www.hpd-collaborative.org

[2]GreenScreen Method: http://www.greenscreenchemicals.org/

[3]GreenScreen(GS) Benchmark scores of chemical ingredients: Benchmark 1 (Avoid, chemical of high concern), Benchmark 2 (Use but search for safer substitutes), Benchmark 3 (Use but still opportunity for improvement), Benchmark 4 (Prefer, safer chemical).

TABLE OF INGREDIENTS

Name	Role	# CAS[1]	Weight ratio	GreenScreen®,[2]	Note (s) (for more details refer to the HPD®)
Aluminum	Main component (substrate)	7439-92-1 7440-43-9	99.0%	LT-1	UNK benchmark also present
Primer	Finishing: preparation layer	108-88-3 13463-67-7 1330-20-7 7631-86-9	0.33%	BM-1	LT-1, LT-P1, BM-2 and LT-UNK benchmarks also present
Inks	Finishing: decorative layer	Undisclosed (3) 142-16-5	0.33%	LT-P1	LT-UNK and UNK benchmarks also present
Varnish	Finishing: protection layer	13048-33-4	0.33%	LT-P1	LT-UNK benchmarks also present

[1]Only the CAS numbers with the score of highest concern are listed.

[2]GS List Translator (LT) scores of chemical ingredients: LT-1, likely GS Benchmark 1; LT-P1, possible GS Benchmark 1; LT-U or LT-UNK, present on GS Specified Lists but there is insufficient information to classify the hazard as LT-1 or LT-P1 (does not mean the chemical is safe).

Validated Eco-Declaration—Declaration of Chemical ingredients
Methodology: validation of the documentation confirming the methodology and reporting of chemical ingredients. Vertima's procedure: VERT-032009-01, Second Edition.

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Validated Eco-Declaration:
EDV16-0930-01
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2018/09 to **2019/09**

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INGREDIENTS AND EMISSIONS (CONTINUED)

VOLATILE ORGANIC COMPOUNDS (VOCs)

All adhesives and finishes are applied during the manufacturing of Dizal 's Aluminum siding. In each category of products presented below, the values refer to the VOC content of adhesives and finishes in their liquid state.

FINISH

Manufacturer	Type	VOC content g/L
Supplier 1	Primer	29 g/L
Supplier 2	Inks	0 g/L
Supplier 3	Vernis UV	16.7 g/L

Validated Eco-Declaration—Emissions and VOCs
Methodology: validation of the documents attesting the methodology and results of emissions general evaluation and VOCs.
Vertima's procedure: VERT-032009-02, Second Edition.

TECHNICAL PERFORMANCES

PERFORMANCE TESTS

Non-exhaustive list

- Abrasion Resistance (ASTM D4060);
- Wind Load Resistance (ISO 7895);
- Impact Resistance (ISO 7895);
- Fading (ASTM G155);
- Graffiti Resistance (ASTM D6578);
- Burning Characteristics (ASTM E84 - CAN/ULC-S102 | CAN/ULC-S114-05/NFPA 285);
- Adhesion Testing (ASTM D339);
- Florida Building Code (FBC) Compliance.

EXPECTED LIFE

-

WARRANTY

DiZal manufactures siding products and accessories designed with high quality materials and certifies efficiency and exceptional durability of its products.

Our Limited Lifetime Warranty covers defects in materials or manufacturing that may cause warping, rust and corrosion, checking, cracking and excessive discoloration if and only if our products are installed according to the instructions and recommendations of the company.*

* Refer to our complete warranty terms and conditions.

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ENVIRONMENTAL DATA SHEET
ALUMINUM SIDING

DIZAL
DIGITALLY PRINTED ALUMINUM SIDING

PRODUCT CONTRIBUTION SUMMARY

LEED® v4 requirements for Building Design + Construction (BD+C)

New Construction, Core Shell, School, Retail, Data Centers, Warehouse and Distribution Centers, Hospitality and Healtcare.

LEED® v4 requirements for Interior Design + Construction (ID+C)

Commercial Interiors, Retail and Hospitality.

MATERIALS AND RESOURCES		POINTS	PRODUCT CONTRIBUTION
MR	**Building Product Disclosure and Optimization — Sourcing of Raw Materials** Option 2: Leadership extraction practices May also contribute to the location valuation factor if the product is sourced (extracted, manufactured, purchased) within 100 miles (160 km) around the project site.	1 point	**ATTRIBUTES** Recycled content Pre-consumer (3.0%) Post-consumer (9.9% - 10.0%)
MR	**Building Product Disclosure and Optimization — Material Ingredients** Option 1: Material ingredients reporting	1 point	**INGREDIENTS AND EMISSIONS** HPD® version 2.0 Health Product Declaration®

INDOOR ENVIRONMENTAL QUALITY		POINTS	PRODUCT CONTRIBUTION
EQ	**Low-Emitting Materials** Option 1: Product category calculation	**Do not contribute**[1]	**INGREDIENTS AND EMISSIONS** [1] The product has not been tested in a laboratory in accordance with the California Department of Public Health (CDPH) Standard Method v1.1–2010

LEED® v4 requirements for Homes

Applies to single family homes, low-rise multi-family (one to three stories), or mid-rise multi-family (four to six stories); includes Homes and Multifamily Lowrise and Multifamily Midrise.

MATERIALS AND RESOURCES		POINTS	PRODUCT CONTRIBUTION
MR Credit 2	**Environmentally Preferable Products** Option 2: Environmentally Preferable Products [2]At least 90% of all materials in each category must meet credit requirements. DiZal's Aluminum siding contributes to 0.5 point for Recycled Content.	0.5 point[2]	**ATTRIBUTES** Recycled content Pre-consumer (3.0%) Post-consumer (9.9% - 10.0%)

INDOOR ENVIRONMENTAL QUALITY		POINTS	PRODUCT CONTRIBUTION
EQ Credit 7	**Low-Emitting Products** [3]At least 90% of all materials in each category must meet credit requirements.	**Do not contribute**[3]	**INGREDIENTS AND EMISSIONS** [3]The product has not been tested in a laboratory in accordance with the California Department of Public Health (CDPH) Standard Method v1.1–2010

It is important to consider that the total amount of possible points reflects the number of achievable points in each credit category. The product itself cannot achieve this score, as defined above, but is considered as a beneficial element in order to achieve LEED® credits.

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Validated Eco-Declaration:
EDV16-0930-01
Period of validity:
2018/09 to **2019/09**

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Aluminum siding by Dizal Inc.

CLASSIFICATION: 07 46 16

PRODUCT DESCRIPTION: THIS HPD COVERS DIGITALLY PRINTED ALUMINUM SIDING FROM DIZAL. DIZAL'S TECHNOLOGY PRINTS AUTHENTIC TEXTURES OF VARIOUS MATERIALS FROM AN EXCLUSIVE HIGH DEFINITION DIGITAL INKJET PRINTING PROCESS. MORE SPECIFICALLY, THIS HPD COVERS THE FOLLOWING ALUMINUM SIDING PANELS: 4" V GROOVE PANEL (PROFILE V), 4 " FLAT PANEL (PROFILE F), 6" V GROOVE PANEL (PROFILE V), 6" CHANNEL PANEL (PROFILE C), 6" FLAT PANEL (PROFILE F), 8" FLAT PANEL (PROFILE F).

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 4 of 4 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 [6063 ALUMINUM UNK *LEAD* LT-1 | MAM | AQU | DEV | REP | CAN | PBT | MUL | END | GEN *CADMIUM* LT-1 | MAM | CAN | AQU | REP | DEV | PBT | GEN | PHY | MUL] PAINT [TOLUENE BM-1 | MAM | SKI | DEV | REP | PHY | END | MUL BARIUM SULFATE BM-2 POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) LT-UNK ETHYLENE GLYCOL MONOBUTYL ETHER (EGBE) LT-P1 | MAM | EYE | SKI | END | CAN DIMETHYL PHTHALATE (DMP) LT-UNK | MUL | REP TITANIUM DIOXIDE BM-1 | CAN PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (PMA) LT-UNK XYLENES BM-1 | MAM | SKI | END | MUL ACRYLONITRILE -METHYL-METHACRYLATE -VINYLIDENE CHLORIDE COPOLYMER LT-P1 | END SILICA, AMORPHOUS BM-1 ETHYLBENZENE LT-1 | MAM | CAN | PHY] INKS [UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | MUL UNDISCLOSED LT-P1 | EYE | SKI | AQU | MUL UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK 2-BUTENEDIOIC ACID (Z)-, BIS(2-ETHYLHEXYL) ESTER LT-P1 | MUL DIPENTAERYTHRITOL HEXAACRYLATE UNK DIPROPYLENE GLYCOL METHYL ETHER ACETATE (DPMA) LT-UNK VINYL CAPROLACTAM LT-UNK] FINISH [1,6-HEXANEDIOL DIACRYLATE LT-P1 | EYE | SKI | MUL URETHANE DIMETHACRYLATE LT-UNK PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE LT-UNK | SKI]

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:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

(●) Self-Published*	VERIFIER:	SCREENING DATE: November 1, 2016	EXPIRY DATE*: November 1, 2019
( ) Third Party Verified	VERIFICATION #:	RELEASE DATE: November 1, 2016	* 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 **%: 99.0000** **HPD URL:**

Inventory Threshold: 100 ppm Residuals Considered: Yes

Material Notes: 6063-5 aluminum alloy contains 10% of post-consumer recycled content and 3% pre-consumer recycled content.

6063 ALUMINUM ID:

%: 100.0000	GS: UNK	RC: Both	NANO: NO	ROLE: Main material

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

SUBSTANCE NOTES: 6063-5 alloy

LEAD ID: 7439-92-1

%: Impurity/Residual	GS: LT-1	RC: None	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	Developmental Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Developmental 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 - 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: Aluminum alloy extrusions contain lead (Pb) as an impurity in the metal at levels less than 10 ppm.

CADMIUM ID: 7440-43-9

%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual

HAZARDS:	**AGENCY(IES) WITH WARNINGS:**	
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
MAMMALIAN	EU - R-phrases	R25 - Toxic if Swallowed

MAMMALIAN	EU - R-phrases	R26 - Very Toxic by Inhalation
CANCER	EU - R-phrases	R45 - May cause cancer
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
DEVELOPMENTAL	EU - R-phrases	R63 - Possible risk of harm to the unborn child
CANCER	US EPA - IRIS Carcinogens	(1986) Group B1 - Probable human Carcinogen
CANCER	IARC	Group 1 - Agent is 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
GENE MUTATION	EU - R-phrases	R68 - May cause irreversible effects
REPRODUCTIVE	CA EPA - Prop 65	Developmental Toxicity - Male
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CANCER	EU - SVHC Authorisation List	Carcinogenic - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
REPRODUCTIVE	EU - GHS (H-Statements)	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
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
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	MAK	Germ Cell Mutagen 3a

SUBSTANCE NOTES: Aluminum alloy extrusions contain cadmium (Cd) as an impurity in the metal at levels less than 10 ppm.

PAINT **%: 0.3300** **HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes: Chrome-free PVDF primer. PVDF = polyvinylidene fluoride

TOLUENE ID: 108-88-3

%: 10.0000 - 30.0000 GS: BM-1 RC: None NANO: NO ROLE: Ingredient #1

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

SUBSTANCE NOTES: See Material notes

BARIUM SULFATE ID: 7727-43-7

%: 10.0000 - 30.0000	GS: BM-2	RC: None	NANO: NO	ROLE: Ingredient #2

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

SUBSTANCE NOTES: See Material notes

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

%: 7.0000 - 13.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #3

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: Ingredient #4

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: Ingredient #5

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

TITANIUM DIOXIDE ID: 13463-67-7

%: 5.0000 - 10.0000	GS: BM-1	RC: None	NANO: NO	ROLE: Ingredient #6

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen (form-specific or based on limited exposure pathways)
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

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

%: 3.0000 - 7.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #7

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

SUBSTANCE NOTES: See Material notes

XYLENES ID: 1330-20-7

%: 1.0000 - 5.0000	GS: BM-1	RC: None	NANO: NO	ROLE: Ingredient #8

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

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

%: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Ingredient #9

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

SUBSTANCE NOTES: Epoxy resin (700 < Molecular Weight <= 1100)

SILICA, AMORPHOUS ID: 7631-86-9

%: 1.0000 - 5.0000	GS: BM-1	RC: None	NANO: NO	ROLE: Ingredient #10

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

SUBSTANCE NOTES: See Material notes

ETHYLBENZENE ID: 100-41-4

%: 0.1000 - 1.0000	GS: LT-1	RC: None	NANO: NO	ROLE: Ingredient #11

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

SUBSTANCE NOTES: See Material notes

INKS **%: 0.3300** **HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes: Inkjet inks used for creating various textures and print. The inventory contains 6 types of ink products: primary colors (magenta, cyan, yellow), black and clear coating. The composition is very similar among all 6 products, therefore only one material has been created.

UNDISCLOSED

%: 25.0000 - 35.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Ingredient #1

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

SUBSTANCE NOTES: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

UNDISCLOSED

%: 15.0000 - 39.5000	GS: LT-P1	RC: None	NANO: NO	ROLE: Ingredient #2

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

SUBSTANCE NOTES: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

UNDISCLOSED

%: 5.0000 - 8.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Ingredient #3

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
ACUTE AQUATIC	EU - R-phrases	R51 - Toxic to Aquatic Organisms
CHRON AQUATIC	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation

SKIN IRRITATION	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: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

UNDISCLOSED

%: 4.0000 - 15.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #4

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

SUBSTANCE NOTES: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

UNDISCLOSED

%: 3.0000 - 7.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #6

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

SUBSTANCE NOTES: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

UNDISCLOSED

%: 3.0000 - 90.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #5

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

SUBSTANCE NOTES: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

UNDISCLOSED

%: 1.0000 - 2.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #7

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

SUBSTANCE NOTES: Ranges come from the variation among ink products. The substance identity is protected by a Non-Disclosure Agreement.

2-BUTENEDIOIC ACID (Z)-, BIS(2-ETHYLHEXYL) ESTER ID: 142-16-5

%: 1.0000 - 2.0000 GS: LT-P1 RC: None NANO: NO ROLE: Ingredient #8

HAZARDS:		AGENCY(IES) WITH WARNINGS:
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Ranges come from the variation among ink products.

DIPENTAERYTHRITOL HEXAACRYLATE ID: 29570-58-9

%: 1.0000 - 2.0000 GS: UNK RC: None NANO: NO ROLE: Ingredient #9

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

SUBSTANCE NOTES: Ranges come from the variation among ink products.

DIPROPYLENE GLYCOL METHYL ETHER ACETATE (DPMA) ID: 88917-22-0

%: 0.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: Ingredient #10

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

SUBSTANCE NOTES: Ranges come from the variation among ink products.

VINYL CAPROLACTAM ID: 2235-00-9

%: 0.0000 - 12.5000 GS: LT-UNK RC: None NANO: NO ROLE: Ingredient #11

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

SUBSTANCE NOTES: Ranges come from the variation among ink products.

FINISH **%: 0.3300** **HPD URL:**

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes: UV-Curable coating

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

%: 10.0000 - 80.0000	GS: LT-P1	RC: None	NANO: NO	ROLE: Ingredient #1

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 IRRITATION	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: Ingredient weight ratio is shown as range to protect proprietary information

URETHANE DIMETHACRYLATE ID: 72869-86-4

%: 2.0000 - 35.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #2

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

SUBSTANCE NOTES: Approximation for Urethane Acrylate oligomer resin. Ingredient weight ratio is shown as range to protect proprietary information

PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE			ID: 162881-26-7	
%: 0.0010 - 10.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Ingredient #3

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

SUBSTANCE NOTES: Ingredient weight ratio is shown as range to protect proprietary information

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.

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.

Section 5: General Notes

All residuals and/or impurities, that may have been present, have been reported for Dizal's aluminum siding products according to suppliers' best knowledge.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Dizal Inc.

ADDRESS: 4000, rue Jean-Marchand, suite 108
Québec, QC G2C 1Y6
Canada

WEBSITE: http://www.dizal.ca/en/

CONTACT NAME: Chantal Brunelet

TITLE: Administrative Assistant

PHONE: 4189159400

EMAIL: cbrunelet@dizal.ca

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 nal 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 veri er are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.