Outdoor Furniture with Richlite Support Pieces by Loll Designs

Health Product Declaration v2.1.1

created via: HPDC Online Builder

CLASSIFICATION: 12 93 00

PRODUCT DESCRIPTION: Loll Designs manufactures commercial-grade furniture and accessories made with recycled and recyclable high-density polyethylene that is reclaimed primarily from plastic milk jugs. Constructed with the impact on the environment in mind. Loll products are durable, all-weather and maintenance free. This group of products contains Richlite to provide more support and greater span on some of our larger pieces.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- (•) Nested Materials Method
- ( ) Basic Method

Threshold Disclosed Per

- ( ) Material
- (•) Product

Threshold level

- (•) 100 ppm
- ( ) 1,000 ppm
- ( ) Per GHS SDS
- ( ) Per OSHA MSDS
- ( ) Other

Residuals/Impurities

Residuals/Impurities Considered in 2 of 3 Materials

Explanation(s) provided for Residuals/Impurities?

- (•) Yes
- ( ) No

All Substances Above the Threshold Indicated Are:

Characterized ( ) Yes Ex/SC (•) Yes ( ) No

% weight and role provided for all substances.

Screened ( ) Yes Ex/SC (•) Yes ( ) No

All substances screened using Priority Hazard Lists with results disclosed.

Identified ( ) Yes Ex/SC ( ) Yes (•) No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | *RESIDUAL OR IMPURITY*
GREENSCREEN SCORE | HAZARD TYPE

PLASTIC STRUCTURAL PARTS [1-HEXENE, POLYMER WITH ETHENE LT-UNK MASTERBATCH CARRIER LT-UNK BLACK COLORANT BM-1 | CAN WHITE COLORANT LT-1 | CAN | END COLOR ADDITIVE 1 LT-UNK WHITE COLORANT LT-UNK YELLOW COLORANT LT-P1 | CAN BROWN COLORANT NoGS RED COLORANT LT-UNK RED COLORANT 2 LT-UNK COLOR ADDITIVE 2 LT-UNK RED COLORANT 3 LT-UNK COLOR ADDITIVE 3 LT-UNK GREEN COLORANT LT-UNK GREEN COLORANT 2 LT-UNK YELLOW COLORANT 2 LT-UNK ORANGE COLORANT LT-UNK YELLOW COLORANT 3 NoGS] RICHLITE PANELS [PAPER NoGS RESIN NoGS] HARDWARE [STAINLESS STEEL NoGS ALUMINUM BM-1 | RES | PHY | 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:

All ingredients present at 100 ppm or greater in plastic structural parts and hardware have been disclosed to third-party assessor for C2C Certification.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: N/A

Multi-attribute: Cradle to Cradle Certified - Bronze (V3.1)

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ( ) Yes
- (•) No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2020-05-13
PUBLISHED DATE: 2020-05-15
EXPIRY DATE: 2023-05-13

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- *Basic Inventory method with Product-level threshold.*
- *Nested Material Inventory method with Product-level threshold*
- *Nested Material Inventory method with individual Material-level thresholds*

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

PLASTIC STRUCTURAL PARTS

%: 98.00 - 99.50

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: no problematic residuals or impurities

OTHER MATERIAL NOTES: Post Consumer Recycled

1-HEXENE, POLYMER WITH ETHENE

ID: 25213-02-9

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

HAZARD SCREENING DATE: **2020-05-13**

%: **98.00 - 98.00** GS: **LT-UNK** RC: **PostC** NANO: **No** ROLE: **Base resin**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: 100% post consumer recycled

MASTERBATCH CARRIER

ID: Undisclosed

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

HAZARD SCREENING DATE: **2020-05-13**

%: **1.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

BLACK COLORANT

ID: Undisclosed

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

HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **BM-1** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

WHITE COLORANT

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-1** RC: **None** NANO: **No** ROLE: **colorant component**

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

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

COLOR ADDITIVE 1

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 0.02** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

WHITE COLORANT

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

YELLOW COLORANT

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 0.50** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	GHS - New Zealand	6.7A - Known or presumed human carcinogens

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

BROWN COLORANT

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **NoGS** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

RED COLORANT

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

RED COLORANT 2

ID: **84632-65-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **color component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

COLOR ADDITIVE 2

ID: 1843-05-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **color protectant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

RED COLORANT 3

ID: Undisclosed

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

COLOR ADDITIVE 3

ID: Undisclosed

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant components**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

GREEN COLORANT

ID: Undisclosed

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

GREEN COLORANT 2

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

YELLOW COLORANT 2

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

ORANGE COLORANT

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

YELLOW COLORANT 3

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-05-13**

%: **0.00 - 1.50** GS: **NoGS** RC: **None** NANO: **No** ROLE: **colorant component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Residuals and impurities were inventoried to 100 ppm threshold on material basis

RICHLITE PANELS

%: 10.00 - 20.00

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Full disclosure to 100 ppm was not provided for this material

OTHER MATERIAL NOTES: Richlite paper composite is used for structural elements

PAPER

ID: **Undisclosed**

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

HAZARD SCREENING DATE: **2020-05-13**

%: **50.00 - 75.00**

GS: **NoGS**

RC: **Both**

NANO: **No**

ROLE: **base material**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Based on publicly-available information

RESIN

ID: **Undisclosed**

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

HAZARD SCREENING DATE: **2020-05-13**

%: **25.00 - 50.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Based on publicly-available information

HARDWARE

%: 0.50 - 2.00

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: All residuals and impurities were inventoried

OTHER MATERIAL NOTES: This includes all fasteners

STAINLESS STEEL

ID: **Undisclosed**

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

HAZARD SCREENING DATE: **2020-05-13**

%: **100.00 - 100.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Fasteners**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: No problematic residuals

ALUMINUM

ID: **Undisclosed**

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

HAZARD SCREENING DATE: **2020-05-13**

%: **100.00 - 100.00**

GS: **BM-1**

RC: **UNK**

NANO: **No**

ROLE: **fastener**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: All residuals and impurities were inventoried

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 — **N/A**

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: N/A
CERTIFICATE URL:

ISSUE DATE: 2020-05-14

EXPIRY DATE:

CERTIFIER OR LAB: N/A

CERTIFICATION AND COMPLIANCE NOTES: This product is for outdoor use, IAQ testing is not applicable

MULTI-ATTRIBUTE — **Cradle to Cradle Certified - Bronze (V3.1)**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: We attained an overall Cradle to Cradle Certified BRONZE™ rating for 9% of our product line. Please reach out to Loll Designs for a complete list of products.
CERTIFICATE URL:
https://www.c2ccertified.org/products/scorecard/outdoor-furniture-with-richlite-support-pieces-loll-designs

ISSUE DATE: 2018-12-18

EXPIRY DATE: 2020-12-18

CERTIFIER OR LAB: MBDC

CERTIFICATION AND COMPLIANCE NOTES:

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

The only substance that is not proprietary is the HDPE resin. The specific masterbatch formulations are all proprietary.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Loll Designs**
ADDRESS: **5912 Waseca St**
Duluth Minnesota 55807, United States
WEBSITE: **www.lolldesigns.com**

CONTACT NAME: **Heather Strasser**
TITLE: **Sales Manager**
PHONE: **218-336-8564**
EMAIL: **heather@lolldesigns.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
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 Unspecified (insuficient 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)
NoGS 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 Terms
Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- *a method for the assessment of exposure or risk associated with product handling or use,*
- *a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.*

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

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

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.