

HPD UNIQUE IDENTIFIER: 337032748032

CLASSIFICATION: 12 25 00 Window Treatment Operating Hardware

PRODUCT DESCRIPTION: The Contract Series Two Shading System sets the benchmark for performance, function, and aesthetics, with easy installation and a best in class operation system. Functions include the ability to link multiple shades to link up to 90-degree angles, withstanding widths up to 12' and pulling forces consistent across the range of sizes up to 120 square feet all 2-3 lbs of pull forces all of which compliments the premium S45 and S60 systems: Sleek, compact shading system with an extensive color pallet; Durable construction, modern design and Industrial aesthetic; Compact and easily hidden in internally and ; Dynamic light and heat control can aid in increasing energy efficiency.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

<b>Inventory Reporting Format</b>	<b>Threshold Level</b>	<b>Residuals/Impurities Evaluation</b>	<i>For all contents above the threshold, the manufacturer has:</i>
<input checked="" type="radio"/> Nested Materials Method	<input checked="" type="radio"/> 100 ppm	Completed in 6 of 6 Materials	<b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Basic Method	<input type="radio"/> 1,000 ppm	<b>Explanation(s) provided for Residuals/Impurities?</b>	<i>Provided weight and role.</i>
<b>Threshold Disclosed Per</b>	<input type="radio"/> Per GHS SDS	<input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other		<i>Provided screening results using HPDC-approved methods.</i>
<input checked="" type="radio"/> Product			<b>Identified</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
			<i>Provided name and CAS RN or other identifier.</i>

CONTENT IN DESCENDING ORDER OF QUANTITY

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

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

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

**NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY**

**GREENSCREEN SCORE | HAZARD TYPE**

ALUMINUM ALLOY TUBE [ ALUMINUM BM-1 | END | PHY | MAM  
MAGNESIUM LT-UNK | PHY | MAM | SKI | EYE SILICON LT-UNK IRON  
LT-P1 | END MANGANESE LT-P1 | END | MUL | REP | MAM | AQU ZINC  
LT-P1 | END | MUL | PHY | AQU CHROMIUM, METALLIC LT-P1 | END |  
SKI | MAM | REP | RES COPPER LT-P1 | MUL | AQU | MAM TITANIUM  
LT-UNK | PHY ] MILD STEEL (CARBON STEEL) [ IRON LT-P1 | END  
GRAPHITE LT-UNK SILICON LT-UNK 1,3-BENZENEDICARBOXYLIC  
ACID, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 2,2-  
DIMETHYL-1,3-PROPANEDIOL, 1,2-ETHANEDIOL AND HEXANEDIOIC  
ACID NoGS MANGANESE LT-P1 | END | MUL | REP | MAM | AQU  
BARIUM SULFATE BM-2 | CAN | MAM PHOSPHORUS BM-2 | MAM |  
PHY | EYE | AQU | SKI SULFUR, ELEMENTAL LT-UNK | SKI | MAM ]  
POLYOXYMETHYLENE COPOLYMER [ 1,3,5-TRIOXANE, POLYMER  
WITH 1,3-DIOXOLANE LT-UNK ] THERMOPLASTIC POLYMER  
COMPOSITE [ NYLON 6 LT-UNK GLASS, OXIDE, CHEMICALS LT-UNK  
] POLAMIDE 6 [ POLY[IMINO(1,6-DIOXO-1,6- HEXANEDIYL)IMINO-1,6-  
HEXANEDIYL] LT-UNK ] POLYCARBONATE [ 1,3-DIOXOLAN-2-ONE  
LT-UNK | EYE PHENOL LT-P1 | CAN | END | MUL | MAM | REP | SKI | GEN  
| EYE | AQU ]

The Contract Series Two (S45) inventory as listed in this HPD is grouped by piece composition and not individual material parts. The HPD was performed in this manner because S45 systems are customizable from hundreds of pieces that could not be individually listed here. This inventory is conducted to the threshold of the possibilities of those systems with the example minimum and maximum system parts listed below. A minimum and maximum were chosen for practical and possible installations of the S45 system. Both the minimum and maximum systems include the following parts: chainwinder, bracket set, idler, tube, chain, easy link drive, bearing bracket. Each part listing can have multiple small pieces such as springs and hardware. All pieces were considered for the 100 ppm threshold. Special Conditions were followed for both minor fasteners and electronic parts. All electrical motors, cords, etc follow are EU RoHS compliant. An ISO-compliant declaration can be viewed at: <https://rolleaseacmedacontract.com/wp-content/uploads/2021/05/Motor-LBC-Red-List-Compliant-Declaration.pdf>. All ancillary fasteners are commodity purchases and are covered by that special condition. For more information on those Special Conditions see the Section "General Notes".

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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-11-29

PUBLISHED DATE: 2023-11-29

EXPIRY DATE: 2026-11-29

## 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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

### ALUMINUM ALLOY TUBE

#: 83.6200 - 87.7600

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Metal

RESIDUALS AND IMPURITIES NOTES: This is for Aluminum alloy 6063. Residuals and impurities are considered in accordance with the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as the threshold applied to intentionally added substances, in terms of level, i.e., 100 ppm or 1000 ppm. Residuals and impurities present below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data as declared in the common product database or in peer-reviewed scientific articles. For this product, no actual material has been tested therefore residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. The main databases used for researching potential residuals and impurities are Pharos and PubChem (formerly toxnet). Any R/I above the threshold shall be listed on the HPD, otherwise, if none are listed then no residuals or impurities are common in that substance above the threshold.

OTHER MATERIAL NOTES: Percentages of >10% are used to disguise formulas covered as intellectual property.

### ALUMINUM

ID: 7429-90-5

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-11-29 13:18:03

#: 99.0000

GreenScreen: BM-1

RC: UNK

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
PHY	GHS - New Zealand	Flammable solids category 1
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
PHY	GHS - Japan	H261 - In contact with water releases flammable gas [Substances and mixtures, which in contact with water, emit flammable gases - Category 2]
PHY	GHS - Malaysia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Pyrophoric solids category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products

SUBSTANCE NOTES: Silicon minimum 0.2%, maximum 0.6% by weight  
Iron no minimum, maximum 0.35%  
Copper no minimum, maximum 0.10%  
Manganese no minimum, maximum 0.10%  
Magnesium minimum 0.45%, maximum 0.9%  
Chromium no minimum, maximum 0.10%  
Zinc no minimum, maximum 0.10%  
Titanium no minimum, maximum 0.10%

## MAGNESIUM

ID: 7439-95-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-11-29 13:18:03

%: 45.0000 - 90.0000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Self-heating substances and mixtures category 1
PHY	GHS - New Zealand	Substances and mixtures which, in contact with water, emit flammable gases category 1
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
PHY	GHS - Australia	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
EYE	GHS - Japan	H319 - Causes serious eye irritation [Serious eye damage / eye irritation - Category 2A]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Per the PubChem database: COMMERCIAL MAGNESIUM IS ABOUT 99.9% PURE; CHIEF CONTAMINANTS ARE ALUMINUM, COPPER, IRON, MANGANESE, NICKEL & SILICON. MAGNESIUM OF HIGH PURITY IS OBTAINED BY DISTILLATION OF IMPURE METAL IN VACUO.

**SILICON**

ID: 7440-21-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2023-11-29 13:18:03

%: **20.0000 - 40.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Per the PubChem database: Impurities: Boron, aluminum; garium; indium; germanium; tin; phosphorus; arsenic; antimony; copper; oxygen; sulfur; iron; tellurium. No actual quantities are listed so the threshold level is unknown. This is not listed in Quartz.

**IRON**

ID: 7439-89-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2023-11-29 13:18:03

%: **0.0000 - 35.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION

None found No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Quartz database reports no known hazardous impurities. PubChem only lists impurities for pig iron and without concentrations: silicon, sulfur, phosphorus, manganese and carbon.

**MANGANESE**

ID: 7439-96-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: 2023-11-29 13:18:04

%: **0.9997 - 10.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

## ZINC

ID: 7440-66-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2023-11-29 13:18:03**

#: **0.0000 - 10.0000**

GreenScreen: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
PHY	EU - GHS (H-Statements) Annex 6 Table 3-1	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - Australia	H250 - Catches fire spontaneously if exposed to air [Pyrophoric liquids; Pyrophoric solids - Category 1]
PHY	GHS - New Zealand	Pyrophoric solids category 1
PHY	GHS - New Zealand	Self-heating substances and mixtures category 1
PHY	GHS - New Zealand	Substances and mixtures which, in contact with water, emit flammable gases category 1
PHY	GHS - Australia	H260 - In contact with water releases flammable gases which may ignite spontaneously [Substances and mixtures which, in contact with water, emit flammable gases - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - Japan	H400 - Very toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 1]
AQU	GHS - Japan	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - Australia	H410 - Very toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List  Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

## CHROMIUM, METALLIC

ID: 7440-47-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:04**

%: **0.0000 - 10.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
REP	GHS - New Zealand	Reproductive toxicity category 2
RES	GHS - Japan	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled [Respiratory sensitization - Category 1A]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products



SUBSTANCE NOTES: In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**COPPER**

ID: 7440-50-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:04**

%: **0.0000 - 10.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
AQU	EU - GHS (H-Statements) Annex 6 Table 3-1	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
AQU	GHS - Australia	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Perkins+Will (P+W)	P&W - Precautionary List  Precautionary list of substances recommended for avoidance
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List  Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products

SUBSTANCE NOTES: In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**TITANIUM**

ID: 7440-32-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:04**

#: 0.0000 - 10.0000

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
PHY	GHS - Japan	H225 - Highly flammable liquid and vapour [Flammable solids - Category 1]
PHY	GHS - Japan	H250 - Catches fire spontaneously if exposed to air [Pyrophoric solids - Category 1]
PHY	GHS - Japan	H251 - Self-heating;; may catch fire [Self-heating substances and mixtures - Category 1]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**MILD STEEL (CARBON STEEL)**

#: 9.6800 - 15.0400

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Metal

**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities are considered in accordance with the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as the threshold applied to intentionally added substances, in terms of level, i.e., 100 ppm or 1000 ppm. Residuals and impurities present below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data as declared in the common product database or in peer-reviewed scientific articles. For this product, no actual material has been tested therefore residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. The main databases used for researching potential residuals and impurities are Pharos and PubChem (formerly toxnet). Any R/I above the threshold shall be listed on the HPD, otherwise, if none are listed then no residuals or impurities are common in that substance above the threshold.

**OTHER MATERIAL NOTES:** Percentages of >10% are used to disguise formulas covered as intellectual property.

**IRON**

ID: 7439-89-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: 2023-11-29 13:18:04

#: 97.9981 - 97.9992

GreenScreen: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**SUBSTANCE NOTES:** Quartz database reports no known hazardous impurities. PubChem only lists impurities for pig iron and without concentrations: silicon, sulfur, phosphorus, manganese and carbon.

**GRAPHITE**

ID: 7440-44-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: 2023-11-29 13:18:04

%: 0.2515 - 0.2912

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials

SUBSTANCE NOTES: In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**SILICON**

ID: **7440-21-3**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:04**

%: 0.2787 - 0.2805

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**1,3-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 2,2-DIMETHYL-1,3-PROPANEDIOL, 1,2-ETHANEDIOL AND HEXANEDIOIC ACID**

ID: **40471-09-8**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:05**

%: 0.0000 - 0.2163

GreenScreen: **NoGS**

RC: **UNK**

NANO: **No**

SUBSTANCE ROLE: **Binder**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-11-29 13:18:05

%: 0.0998 - 0.1015      GreenScreen: LT-P1      RC: None      NANO: No      SUBSTANCE ROLE: Alloy element

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products

SUBSTANCE NOTES: In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

## BARIUM SULFATE

ID: 7727-43-7

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2023-11-29 13:18:05

%: 0.0000 - 0.0832      GreenScreen: BM-2      RC: UNK      NANO: No      SUBSTANCE ROLE: Filler

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

## PHOSPHORUS

ID: 7723-14-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2023-11-29 13:18:05**

%: **0.0387 - 0.0624**

GreenScreen: **BM-2**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
PHY	GHS - New Zealand	Pyrophoric solids category 1
EYE	GHS - New Zealand	Serious eye damage category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects
SKI	GHS - New Zealand	Skin corrosion category 1A
MAM	GHS - New Zealand	Acute dermal toxicity category 1
MAM	GHS - New Zealand	Acute inhalation toxicity category 1
MAM	GHS - New Zealand	Acute oral toxicity category 1
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

## SULFUR, ELEMENTAL

ID: 7704-34-9

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:05**

%: **0.0484 - 0.0499** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
SKI	GHS - New Zealand	Skin irritation category 2
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List  Antimicrobials

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**POLYOXYMETHYLENE COPOLYMER**    %: 6.8000 - 7.2700

PRODUCT THRESHOLD: 100 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes    MATERIAL TYPE: Polymeric Material

**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities are considered in accordance with the HPD Best Practice Guidance, 10.02.17, version 1 “The threshold applied to Residuals and Impurities (R/I) is the same as the threshold applied to intentionally added substances, in terms of level, i.e., 100 ppm or 1000 ppm. Residuals and impurities present below the declared Inventory Threshold do not need to be reported on the HPD.” This includes average data as declared in the common product database or in peer-reviewed scientific articles. For this product, no actual material has been tested therefore residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. The main databases used for researching potential residuals and impurities are Pharos and PubChem (formerly toxnet). Any R/I above the threshold shall be listed on the HPD, otherwise, if none are listed then no residuals or impurities are common in that substance above the threshold.

**OTHER MATERIAL NOTES:** Percentages of >10% are used to disguise formulas covered as intellectual property.

**1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE**

ID: 24969-26-4

HAZARD DATA SOURCE: Pharos Chemical and Materials Library    HAZARD SCREENING DATE: 2023-11-29 13:18:05

%: 97.0000 - 99.9862    GreenScreen: LT-UNK    RC: None    NANO: No    SUBSTANCE ROLE: Monomer

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**THERMOPLASTIC POLYMER COMPOSITE**    %: 1.2100 - 5.1900

PRODUCT THRESHOLD: 100 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes    MATERIAL TYPE: Polymeric Material

**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities are considered in accordance with the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as the threshold applied to intentionally added substances, in terms of level, i.e., 100 ppm or 1000 ppm. Residuals and impurities present below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data as declared in the common product database or in peer-reviewed scientific articles. For this product, no actual material has been tested therefore residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. The main databases used for researching potential residuals and impurities are Pharos and PubChem (formerly toxnet). Any R/I above the threshold shall be listed on the HPD, otherwise, if none are listed then no residuals or impurities are common in that substance above the threshold.

**OTHER MATERIAL NOTES:** Percentages of >10% are used to disguise formulas covered as intellectual property.

**NYLON 6**

ID: 25038-54-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:05**

%: **55.0000 - 65.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**GLASS, OXIDE, CHEMICALS**

ID: 65997-17-3

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:06**

%: **0.0000 - 30.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions

Exempted from REACH Annex V listing due to intrinsic safety

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**POLAMIDE 6**

%: **3.3400 - 4.8600**

PRODUCT THRESHOLD: **100 ppm** RESIDUALS AND IMPURITIES EVALUATION COMPLETED: **Yes** MATERIAL TYPE: **Polymeric Material**



**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities are considered in accordance with the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as the threshold applied to intentionally added substances, in terms of level, i.e., 100 ppm or 1000 ppm. Residuals and impurities present below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data as declared in the common product database or in peer-reviewed scientific articles. For this product, no actual material has been tested therefore residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. The main databases used for researching potential residuals and impurities are Pharos and PubChem (formerly toxnet). Any R/I above the threshold shall be listed on the HPD, otherwise, if none are listed then no residuals or impurities are common in that substance above the threshold.

**OTHER MATERIAL NOTES:** Percentages of >10% are used to disguise formulas covered as intellectual property.

**POLY[IMINO(1,6-DIOXO-1,6- HEXANEDIYL)IMINO-1,6-HEXANEDIYL]**

ID: 32131-17-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:06**

%: **100.0000 - 100.0000** GreenScreen: **LT-UNK** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Monomer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**POLYCARBONATE**

%: **0.6600 - 0.7600**

PRODUCT THRESHOLD: **100 ppm** RESIDUALS AND IMPURITIES EVALUATION COMPLETED: **Yes** MATERIAL TYPE: **Polymeric Material**

**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities are considered in accordance with the HPD Best Practice Guidance, 10.02.17, version 1 "The threshold applied to Residuals and Impurities (R/I) is the same as the threshold applied to intentionally added substances, in terms of level, i.e., 100 ppm or 1000 ppm. Residuals and impurities present below the declared Inventory Threshold do not need to be reported on the HPD." This includes average data as declared in the common product database or in peer-reviewed scientific articles. For this product, no actual material has been tested therefore residuals and impurities are for informational purposes only and are not a guarantee of presence in the actual building material. The main databases used for researching potential residuals and impurities are Pharos and PubChem (formerly toxnet). Any R/I above the threshold shall be listed on the HPD, otherwise, if none are listed then no residuals or impurities are common in that substance above the threshold.

**OTHER MATERIAL NOTES:** The manufacturer will not list the exact chemical composition of the polycarbonate by the percentage of weight. For this reason, the following chemicals are listed but may not be in an amount above the threshold. The actual material percentage is <1% of the total system by weight and not in contact with the user. Therefore the chance of exposure to the substance above the 100 ppm threshold is not considered likely. Every effort has been made to screen this material thoroughly and to provide the user with credible data. The following substances are listed as part of the polycarbonate material: 4,4'-isopropylidenediphenol, Methanol, Ethylene carbonate, and Phenol. Included in the screening is the one substance provided in detail on the manufacturer SDS. In addition,, this product has been redesigned to remove this material. Based on current inventory the shading system may or may not contain this material. This information is for reference only.

**1,3-DIOXOLAN-2-ONE**

ID: 96-49-1

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:06**

%: **75.0000 - 85.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
EYE	GHS - New Zealand	Serious eye damage category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List  Some Solvents

**SUBSTANCE NOTES:** In accordance with the HPD guide on special circumstances: The threshold applied to Residuals and Impurities (R/I) should be the same as the threshold applied to intentionally added substances, in terms of level (i.e., 100 ppm, 1000 ppm, per SDS, etc.) and whether applied to each homogenous Material or to the Product as a whole. No impurities are noted at the threshold of 100 ppm.

**PHENOL**

ID: 108-95-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-11-29 13:18:06**

%: **0.0100 - 0.1000** GreenScreen: **LT-P1** RC: **UNK** NANO: **Unknown** SUBSTANCE ROLE: **Antimicrobial Pesticide**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
MAM	EU - GHS (H-Statements) Annex 6 Table 3-1	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
GEN	EU - GHS (H-Statements) Annex 6 Table 3-1	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
GEN	GHS - New Zealand	Germ cell mutagenicity category 1
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Australia	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1

MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
EYE	GHS - New Zealand	Serious eye damage category 1
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H314 - Causes severe skin burns and eye damage [Skin corrosion / irritation - Category 1]
SKI	GHS - Australia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
MAM	GHS - New Zealand	Acute inhalation toxicity category 2
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 2
REP	GHS - New Zealand	Reproductive toxicity category 2
SKI	GHS - Korea	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1]
SKI	GHS - New Zealand	Skin corrosion category 1B
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
MAM	GHS - Korea	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
MAM	GHS - Korea	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
GEN	GHS - Korea	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
AQU	GHS - Korea	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects
GEN	EU - Annex VI CMRs	Mutagen - Category 2
GEN	GHS - New Zealand	Germ cell mutagenicity category 2
MAM	GHS - Japan	H311 - Toxic in contact with skin [Acute Toxicity (dermal) - Category 3]
MAM	GHS - Malaysia	H300 - Fatal if swallowed [Acute toxicity (oral) - Category 1 or 2]
MAM	GHS - Malaysia	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
MAM	GHS - Malaysia	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]

SKI	GHS - Malaysia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]
EYE	GHS - Malaysia	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]
GEN	GHS - Malaysia	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - Australia	H301 - Toxic if swallowed [Acute toxicity (oral) - Category 3]
MAM	GHS - Australia	H311 - Toxic in contact with skin [Acute toxicity (dermal) - Category 3]
MAM	GHS - Australia	H331 - Toxic if inhaled [Acute toxicity (inhalation) - Category 3]
MAM	GHS - New Zealand	Acute dermal toxicity category 3
MAM	GHS - New Zealand	Acute oral toxicity category 3
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List  Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products

SUBSTANCE NOTES: Residuals and impurities were screened using Pharos database. See material note under Polycarbonate..

## 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

CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2019-04-15

CERTIFIER OR LAB: Berkeley

APPLICABLE FACILITIES: This covers the S45, it is not a facility restrictive test.

EXPIRY DATE:

Analyticaal

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: A copy of the report can be found here: <https://rolleseeacmedacontract.com/wp-content/uploads/2020/05/S45-Low-VOC-LEED.pdf>

## 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.*

### AMBIENT FABRIC BY TEXSTYLE

MANUFACTURER (OR GENERIC): Rollease Acmeda

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish\\_430\\_Ambient\\_Fabric\\_by\\_Texstyle\\_a\\_division\\_of\\_Rollease\\_Acmeda.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_430_Ambient_Fabric_by_Texstyle_a_division_of_Rollease_Acmeda.pdf)

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a fabric for the window shade system.

### ALKENZ 3000 NET

MANUFACTURER (OR GENERIC): Alkenz

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish\\_430\\_Rollease\\_Acmeda\\_Alkenz\\_3000\\_NET\\_Fabric.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_430_Rollease_Acmeda_Alkenz_3000_NET_Fabric.pdf)

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a fabric for the window shading system.

### ALKENZ 3000 HT

MANUFACTURER (OR GENERIC): Alkenz

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish\\_430\\_Rollease\\_Acmeda\\_Alkenz\\_3000\\_HT\\_Fabric.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_430_Rollease_Acmeda_Alkenz_3000_HT_Fabric.pdf)

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a fabric for the window shading system.

### MESA FABRIC

MANUFACTURER (OR GENERIC): Rollease Acmeda

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish\\_430\\_Rollease\\_Acmeda\\_Mesa\\_Fabric.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_430_Rollease_Acmeda_Mesa_Fabric.pdf)

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a fabric for the window shading system.

### TEMPE FABRIC

MANUFACTURER (OR GENERIC): Rollease Acmeda

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish\\_430\\_Rollease\\_Acmeda\\_Tempe\\_Fabric.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_430_Rollease_Acmeda_Tempe_Fabric.pdf)

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a fabric for the window shading system.

## ALKENZ 4000 NET

MANUFACTURER (OR GENERIC): Alkenz

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish\\_430\\_Rollease\\_Acmeda\\_Alkenz\\_4000\\_NET\\_Fabric.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_430_Rollease_Acmeda_Alkenz_4000_NET_Fabric.pdf)

ACCESSORY TYPE: Installation Accessory

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: This is a fabric for the window shading system.

### Section 5: General Notes

This HPD includes all the system parts for the S45 system. Accessories for this system are the shade fabrics by Textstlye by Rollease Acmeda. Those textiles are listed in the accessory section of this HPD. Any electronic components in this system are below the 10% threshold and are completely encased. As per the special instructions per HPD, they are not included in this inventory. Electronic components may or may not be present in the installed system. In addition, the range for substances in this HPD is greater than 10% because the system is completely customizable and comes in custom sizes. For this reason, a minimum and maximum length system were created as the upper and lower thresholds to create the percentages.

All electronics in this system are covered by the "Special Condition- Electronics," Version: SCElec/2018-02-23. Parts are EU RoHS compliant without exemptions. Our ISO-compliant declaration can be viewed at: <https://rolleseaacmedacontract.com/wp-content/uploads/2021/05/Motor-LBC-Red-List-Compliant-Declaration.pdf>.

Ancillary fasteners associated with the installation of this system are covered under "Special Condition" Minor Fasteners, Version: SCMinorFasteners/2020-07-16. Product manufacturers completing a Product HPD or Supplier HPD may exclude specific types of minor commodity-type fasteners from the typical HPD Open Standard content inventory and hazard screening methods, for up to a percentage of the product weight. The policy identifies two thresholds, both of which comply with the policy:  $\leq 1\%$  or  $\leq 5\%$ . These are commodities purchased by either Rollease Acmeda or their dealers, are manufactured to a specific ASTM, and are not custom. All minor fasteners are  $< 5\%$  by weight of this system.

**MANUFACTURER INFORMATION**

**MANUFACTURER:** Rollease Acmeda  
**ADDRESS:** 750 E. Main Street  
 Stamford, CT 06902  
**COUNTRY:** United States of America

**WEBSITE:** <https://rolleseeacmedacontract.com>  
**CONTACT NAME:** Geremie Giancola  
**TITLE:** Commercial Group Manager - North America  
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*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

**KEY**

**Hazard Types**

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

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> No GreenScreen.
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

**Recycled Types**

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

**Other Terms:**

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

**Inventory Methods:**

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

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

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

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

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

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

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