HPD UNIQUE IDENTIFIER: 27872
CLASSIFICATION: 12 51 00 Office Furniture
PRODUCT DESCRIPTION: The Liberty Task chair is an intelligent mesh task chair engineered to provide automatic lumbar support for every user, as well offering simplicity and complete ease of use. Liberty was designed to offer a unique, minimal aesthetic and to provide custom comfort for every person who sits in it. Like Humanscale's Diffrient Smart and Diffrient World chairs, Liberty uses Humanscale's revolutionary Form-Sensing Mesh Technology and mechanism-free recline for perfect support and unprecedented comfort.

Section 1: Summary

Basic 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
- ○ Other

Residuals/Impurities
- ○ Considered
- ◉ Partially Considered
- ○ Not Considered

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

LIBERTY® TASK [UNS A13800 ALUMINUM ALLOY NoGS STEEL NoGS NYLON 6 LT-UNK POLYPROPYLENE LT-UNK POLYSTYRENE LT-UNK GLASS/MINERAL FIBER LT-UNK TALC FILLER BM-1 | CAN POLYAMIDE PA6 LT-UNK 1,4-BUTANEDIOL, POLYMER WITH α-HYDRO-ω-HYDROXYPOLY(OXY-1,4-BUTANEDIYL) AND 1,1'-METHYLENEBIS[4-ISOCYANATOBENZENE] LT-P1 SPRING STEEL NoGS POM LT-UNK POLYURETHANE LT-UNK 1-BUTENE, POLYMER WITH ETHENE LT-UNK 1,4-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,4-BUTANEDIOL AND α-HYDRO-ω-HYDROXYPOLY(OXY-1,4-BUTANEDIYL) LT-UNK POLYETHYLENE LT-UNK OILITE BRONZE NoGS STYRENE-BUTADIENE POLYMER LT-UNK POLYETHYLENE TEREPHTHALATE (PET) LT-UNK BUTANEDIOIC ACID, DIMETHYL ESTER, POLYMER WITH 4-HYDROXY-2,2,6,6-TETRAMETHYL-1-PIPERIDINEETHANOL LT-UNK TITANIUM DIOXIDE LT-1 | CAN | END ETHYLENE LT-UNK | CAN | PHY NYLON 66 LT-UNK ZINC SULFIDE LT-UNK OCTADECANAMIDE, N,N'-1,2-ETHANEDIYLBIS- LT-UNK PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC LT-1 | CAN | PBT | MUL CARBON BLACK BM-1 | CAN CALCIUM CARBONATE BM-3dg BENZENEPROPANAMIDE, N,N'-1,6-HEXANEDIYLBIS[3, 5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY- LT-UNK OCTADECANOIC ACID, ZINC SALT LT-P1 CARBON BLACK BM-1 | CAN PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-, PHOSPHITE (3:1) LT-UNK | PBT TRIVALENT CHROMIUM COMPOUND LT-UNK | MUL 1,4-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,3-DIHYDRO-1,3-DIOXO-5-ISOBENZOFURANCARBOXYLIC ACID, 2,2-DIMETHYL-1,3-PROPANEDIOL AND 2,2-OXYBISETHANOL NoGS STYRENE-ACRYLONITRILE COPOLYMERS LT-UNK POTASSIUM BROMIDE (KBR) LT-P1 2-PROPENOIC ACID, ETHYL ESTER, POLYMER WITH N-(HYDROXYMETHYL)-2-PROPENAMIDE, 2-PROPENAMIDE AND 2-PROPENENITRILE LT-UNK 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE, N-(HYDROXYMETHYL)-2-PROPENAMIDE AND 2-PROPENENITRILE LT-

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:

This HPD includes several metal alloys identified by the alloy number which is allowed by the HPD Standard. However, due to the current limitations in the HPD Builder, it is recognizing these substances as not being identified.

UNK 1,2-BENZENEDICARBOXYLIC ACID, DI-2-PROPENYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE AND 2-METHYL-2-PROPENOIC ACID LT-UNK GLASS, OXIDE, CHEMICALS LT-UNK CAPROLACTAM LT-UNK | SKI | EYE REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONATE LT-UNK BARIUM SULFATE BM-2 | CAN 1,3-BENZENEDICARBOXYLIC ACID, POLYMER WITH 2,2-DIMETHYL-1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL AND HEXANEDIOIC ACID NoGS CHROMIUM LT-P1 | END | SKI | RES POLYURETHANE FOAMS LT-UNK PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 2,2'-[(1-METHYLETHYLIDENE) BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS[OXIRANE] LT-P1 | END 1-OCTENE, POLYMER WITH ETHENE LT-UNK DGEBPA-B LT-P1 | END POLYETHYLENE TEREPHTHALATE (PET) NoGS ZINC STERATE LT-P1 THERMOPLASTIC POLYURETHANE NoGS TPU LT-P1]

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: Indoor Advantage Gold

Multi-attribute: ANSI/BIFMA e3-2014e Furniture Sustainability Standard

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- (•) Yes
- ( ) No

PREPARER: Self-Prepared
VERIFIER: WAP Sustainability Consulting
VERIFICATION #: zPr-13631

SCREENING DATE: 2021-10-15
PUBLISHED DATE: 2022-03-17
EXPIRY DATE: 2024-10-15

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 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

LIBERTY® TASK

PRODUCT THRESHOLD: **100 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **Partially**

RESIDUALS AND IMPURITIES NOTES: **Only chemical substances restricted by regulations and Humanscale voluntary restriction list are considered. Residuals and impurities of those chemicals are tested or confirmed to be below required threshold. Residuals and impurities for other chemical substances are not considered.**

OTHER PRODUCT NOTES: **The range of percent by weight for each substance comes from different product configurations and material formulations. The BM score comes from HPD builder screening.**

UNS A13800 ALUMINUM ALLOY

ID: **Not Registered**

HAZARD SCREENING METHOD: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2021-10-15 12:14:47**

%: **24.5810 - 46.9550** GS: **NoGS** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Alloy element**

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

SUBSTANCE NOTES:

STEEL

ID: **12597-69-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:04**

%: **22.1700 - 26.8730** GS: **NoGS** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Alloy element**

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

SUBSTANCE NOTES:

NYLON 6

ID: **25038-54-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:04**

%: **6.1280 - 15.9110** GS: **LT-UNK** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

POLYPROPYLENE

ID: **9003-07-0**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:05**

%: **4.4800 - 5.1040** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

POLYSTYRENE

ID: **9003-53-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:05**

%: **3.3090 - 3.4320** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

GLASS/MINERAL FIBER

ID: **65997-17-3**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:06**

%: **2.3490 - 10.6850** GS: **LT-UNK** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES:

TALC FILLER

ID: **14807-96-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:06**

%: **0.9740 - 1.2360** GS: **BM-1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES:

POLYAMIDE PA6

ID: **24993-04-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:06**

%: **0.8050 - 0.8620** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

1,4-BUTANEDIOL, POLYMER WITH α-HYDRO-ω-HYDROXYPOLY(OXY-1,4-BUTANEDIYL) AND 1,1'-METHYLENEBIS[4-ISOCYANATOBENZENE] ID: **9018-04-6**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:07**

%: **0.7180 - 0.7520** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

SPRING STEEL ID: **12597-69-2**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:07**

%: **0.6180 - 0.6410** GS: **NoGS** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Alloy element**

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

SUBSTANCE NOTES:

POM ID: **24969-26-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:08**

%: **0.4450 - 0.4620** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

POLYURETHANE ID: **9009-54-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:08**

%: **0.3480 - 3.5200** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

1-BUTENE, POLYMER WITH ETHENE ID: **25087-34-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:09**

%: **0.2160 - 1.1200** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Impact modifier**

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

SUBSTANCE NOTES:

1,4-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,4-BUTANEDIOL AND α-HYDRO-ω-HYDROXYPOLY(OXY-1,4-BUTANEDIYL) ID: **37282-12-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:09**

%: **0.1980 - 0.3690** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

POLYETHYLENE ID: **9002-88-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:10**

%: **0.1940 - 0.2050** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

OILITE BRONZE ID: **Not Registered**

HAZARD SCREENING METHOD: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2021-10-15 12:15:11**

%: **0.1540 - 0.1590** GS: **NoGS** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Alloy element**

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

SUBSTANCE NOTES:

STYRENE-BUTADIENE POLYMER ID: **9003-55-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:10**

%: **0.0830 - 0.0860** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

POLYETHYLENE TEREPHTHALATE (PET) ID: **25038-59-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:11**

%: **0.0350 - 0.1320** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

BUTANEDIOIC ACID, DIMETHYL ESTER, POLYMER WITH 4-HYDROXY-2,2,6,6-TETRAMETHYL-1-PIPERIDINEETHANOL

ID: 65447-77-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:11**

%: **0.0340 - 0.0360** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:11**

%: **0.0330 - 0.0990** GS: **LT-1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Pigment**

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

SUBSTANCE NOTES:

ETHYLENE

ID: 74-85-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:12**

%: **0.0320 - 0.0660** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
PHY	EU - GHS (H-Statements)	H220 - Extremely flammable gas [Flammable gases - Category 1]

SUBSTANCE NOTES:

NYLON 66

ID: 32131-17-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:12**

%: **0.0230 - 0.2260** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

ZINC SULFIDE

ID: 1314-98-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:13**

%: **0.0180 - 0.1410** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Lubricant**

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

SUBSTANCE NOTES:

OCTADECANAMIDE, N,N'-1,2-ETHANEDIYLBIS-

ID: 110-30-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:13**

%: **0.0140 - 0.0170** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES:

PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC

ID: 64742-52-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:14**

%: **0.0110 - 0.0110** GS: **LT-1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Lubricant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
CAN	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CAN	EU - GHS (H-Statements)	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	GHS - Australia	H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]

SUBSTANCE NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:15**

%: **0.0030 - 0.0620** GS: **BM-1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Pigment**

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

SUBSTANCE NOTES:

CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:14**

%: **0.0030 - 0.0520** GS: **BM-3dg** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES:

BENZENEPROPANAMIDE, N,N'-1,6-HEXANEDIYLBIS[3, 5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-

ID: 23128-74-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:15**

%: **0.0030 - 0.0190** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Antioxidant**

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

SUBSTANCE NOTES:

OCTADECANOIC ACID, ZINC SALT

ID: 557-05-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:16**

%: **0.0020 - 0.0470** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Stabilizer**

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

SUBSTANCE NOTES:

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:17**

%: **0.0010 - 0.0680** GS: **BM-1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Pigment**

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

SUBSTANCE NOTES:

PHENOL, 2,4-BIS(1,1-DIMETHYLETHYL)-, PHOSPHITE (3:1) ID: **31570-04-4**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:16**

%: **0.0010 - 0.0150** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Antioxidant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EU - ESIS PBT	Under PBT evaluation

SUBSTANCE NOTES:

TRIVALENT CHROMIUM COMPOUND ID: **57693-14-8**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:17**

%: **0.0010 - 0.0220** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Dye**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES:

1,4-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,3-DIHYDRO-1,3-DIOXO-5-ISOBENZOFURANCARBOXYLIC ACID, 2,2-DIMETHYL-1,3-PROPANEDIOL AND 2,2-OXYBISETHANOL ID: **126191-59-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-03-10 7:45:18**

%: **0.0000 - 0.0340** GS: **NoGS** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

STYRENE-ACRYLONITRILE COPOLYMERS ID: **9003-54-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:19**

%: **0.0000 - 0.1930** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

POTASSIUM BROMIDE (KBR)

ID: 7758-02-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-12-29 13:57:39**

%: **0.0000 - 0.0140** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Stabilizer**

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

SUBSTANCE NOTES:

2-PROPENOIC ACID, ETHYL ESTER, POLYMER WITH N-(HYDROXYMETHYL)-2-PROPENAMIDE, 2-PROPENAMIDE AND 2-PROPENENITRILE

ID: 27082-48-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-12-29 13:57:46**

%: **0.0000 - 0.0150** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Lubricant**

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

SUBSTANCE NOTES:

2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE, N-(HYDROXYMETHYL)-2-PROPENAMIDE AND 2-PROPENENITRILE

ID: 57673-13-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-12-29 13:58:02**

%: **0.0000 - 0.0150** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Lubricant**

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

SUBSTANCE NOTES:

1,2-BENZENEDICARBOXYLIC ACID, DI-2-PROPENYL ESTER, POLYMER WITH ETHYL 2-PROPENOATE AND 2-METHYL-2-PROPENOIC ACID

ID: 28411-49-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-12-29 13:57:53**

%: **0.0000 - 0.0150** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Plasticizer**

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

SUBSTANCE NOTES:

GLASS, OXIDE, CHEMICALS

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-12-29 13:58:10**

%: **0.0000 - 0.0160** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Filler**

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

SUBSTANCE NOTES:

CAPROLACTAM

ID: 105-60-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:19**

%: **0.0000 - 0.1400** GS: **LT-UNK** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Residual**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]

SUBSTANCE NOTES:

REACTION MASS OF ISOMERS OF: C7-9-ALKYL 3-(3,5-DI-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONATE

ID: 125643-61-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:21**

%: **0.0000 - 0.0230** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

BARIUM SULFATE

ID: 7727-43-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:21**

%: **0.0000 - 0.0240** GS: **BM-2** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES:

1,3-BENZENEDICARBOXYLIC ACID, POLYMER WITH 2,2-DIMETHYL-1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-1,3-PROPANEDIOL AND HEXANEDIOIC ACID

ID: 25950-34-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:22**

%: **0.0000 - 0.0270** GS: **NoGS** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Powder coating**

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

SUBSTANCE NOTES:

CHROMIUM

ID: 7440-47-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:22**

%: **0.0000 - 0.1000** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Plating agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	MAK	Sensitizing Substance Sh - Danger of skin sensitization
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

POLYURETHANE FOAMS

ID: 9009-54-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:23**

%: **0.0000 - 3.7130** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 2,2'-[(1-METHYLETHYLIDENE) BIS(4,1-PHENYLENEOXYMETHYLENE)]BIS[OXIRANE]

ID: 25036-25-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:23**

%: **0.0000 - 0.0500** GS: **LT-P1** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Powder coating**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity

SUBSTANCE NOTES:

1-OCTENE, POLYMER WITH ETHENE

ID: 26221-73-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:24**

%: **0.0000 - 0.0560** GS: **LT-UNK** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Impact modifier**

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

SUBSTANCE NOTES:

DGEBPA-B

ID: 25036-25-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:24**

%: **0.0000 - 0.0600** GS: **LT-P1** RC: **Both** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity

SUBSTANCE NOTES:

POLYETHYLENE TEREPHTHALATE (PET)

ID: **Not Registered**

HAZARD SCREENING METHOD: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2021-10-15 12:15:22**

%: **0.0000 - 0.0640** GS: **NoGS** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

ZINC STERATE

ID: **557-05-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:25**

%: **0.0000 - 0.2820** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Lubricant**

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

SUBSTANCE NOTES:

THERMOPLASTIC POLYURETHANE

ID: **61789-63-7**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:25**

%: **0.0000 - 1.1760** GS: **NoGS** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

TPU

ID: **32238-28-1**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-10-15 12:23:26**

%: **0.0000 - 1.1760** GS: **LT-P1** RC: **None** NANO: **Unknown** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS — **Indoor Advantage Gold**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL: https://cdn.scscertified.com/products/cert_pdfs/Humanscale_2021_SCS-IAQ-05426_s.pdf

ISSUE DATE: 2020-11-01
EXPIRY DATE: 2022-10-31
CERTIFIER OR LAB: SCS Global Services

CERTIFICATION AND COMPLIANCE NOTES:

MULTI-ATTRIBUTE — **ANSI/BIFMA e3-2014e Furniture Sustainability Standard**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Piscataway, NJ; Fresno, CA; Nogales, Mexico
CERTIFICATE URL: https://cdn.scscertified.com/products/cert_pdfs/Humanscale_2020_EXT_SCS-SCF-05108_s.pdf

ISSUE DATE: 2018-09-04
EXPIRY DATE: 2022-04-30
CERTIFIER OR LAB: SCS Global Services

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

Legal Notice: This HPD lists only those known chemical ingredients as provided by Humanscale's suppliers, and that account for 0.01% or more of the total product components. The listing of materials are based on Humanscale's supplier disclosures and is not based on independent testing to confirm the presence of absence of any specific chemical components. Accordingly, the product may contain certain chemicals that are not listed herein. Additionally, as the hazards information provided herein was generated under license using the HPDC Online Builder, Humanscale does not warrant that the hazard information or health effects provided by HPDC or its Authoritative Hazard List are accurate or apply to every context in which the chemicals may be used. The range of substances wt% reflects the chemical compositions of different product configurations and material formulation.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Humanscale**
ADDRESS: **220 Circle Drive N**
Piscataway New Jersey 08854, USA
WEBSITE: **https://www.humanscale.com/**

CONTACT NAME: **Luke Zhou**
TITLE: **Lead Sustainable Materials Specialist, LEED Green Associate**
PHONE: **732-537-2944 x 1276**
EMAIL: **lzhou@humanscale.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

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

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 (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

Recycled Types

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

Other Terms:

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

Inventory Methods:

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

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

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

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

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

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

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