

CLASSIFICATION: 12 51 00.00 FURNISHINGS: OFFICE FURNITURE

PRODUCT DESCRIPTION: A DESIGN DRIVEN BY HUMANSCALE'S PASSION FOR THE ENVIRONMENT, THE LIBERTY SIDE CHAIR WAS CREATED TO PUSH THE BOUNDARIES OF MINIMALISM FOUND IN THE LIBERTY TASK CHAIR AND BE AS SIMPLE AND ENVIRONMENTALLY FRIENDLY AS POSSIBLE, WITHOUT SACRIFICING HUMANSCALE'S PHILOSOPHY OF COMPLETE, AUTOMATIC COMFORT. NIELS DIFFRIENT DEVELOPED THE LIBERTY SIDE TO SHOWCASE THE SAME COMPLETE-BODY COMFORT FOUND IN HUMANSCALE TASK CHAIRS, BUT MADE WITH LIGHTWEIGHT, RECYCLABLE AND LONG-LASTING MATERIALS.

Section 1: Summary

CONTENT INVENTORY

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

- Residuals and impurities considered in 0 of 8 materials
- see Section 2: Material Notes
 - see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

CONTENT IN DESCENDING ORDER OF QUANTITY

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

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

ALUMINIUM A380.0-F RECYCLED NYLON MESH_MONOFILAMENT STRIPE BLACK [TETRAHYDROFURAN **LT-UNK** | EYE | PHY | CAN NYLON 6 **LT-UNK** POLYETHYLENE TEREPHTHALATE (PET) **LT-UNK** TRIVALENT CHROMIUM COMPOUND **LT-UNK** 12219-93-1 **UNK** SODIUM SULFATE **LT-UNK**] TPU [POLYURETHANE **LT-UNK**] ARM PAD BASE [PROPYLENE **LT-UNK** | PHY ETHYLENE **LT-UNK** | PHY | CAN] NYLON 6 [HEXANEDIOIC ACID, POLYMER WITH HEXAHYDRO-2H-AZEPIN-2-ONE AND 1,6-HEXANEDIAMINE **LT-UNK** POLYETHYLENE **LT-UNK**] POLYURETHANE FOAM [POLYURETHANE FOAMS **LT-UNK**] STEEL

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen Benchmark or List translator Score.....
LT-UNK
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

The inventory threshold is 100ppm of product.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: Greenguard_Liberty Side
VOC emissions: Greenguard Gold_Liberty Side
Multi-attribute: Level 2_Seating

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: October 11, 2016	EXPIRY DATE*: October 11, 2019
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: October 11, 2016	* or within 3 months of significant change in product contents
*See HPDC website for details			



Section 2: Content in Descending Order of Quantity

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

ALUMINIUM A380.0-F %: 56.0400 - 56.0400 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes:

RECYCLED NYLON %: 38.7200 - 38.7200 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes: This is 100% recycled glass filled nylon.

MESH MONOFILAMENT STRIPE BLACK %: 2.0900 - 2.0900 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes:

TETRAHYDROFURAN

ID: 109-99-9

%: 66.0000 - 66.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Raw Material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

EYE IRRITATION

EU - R-phrases

R36 - Irritating to eyes

PHYSICAL HAZARD
(REACTIVE)

EU - GHS (H-Statements)

H225 - Highly flammable liquid and vapour

EYE IRRITATION

EU - GHS (H-Statements)

H319 - Causes serious eye irritation

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES:

NYLON 6

ID: 25038-54-4

%: 18.2500 - 18.2500

GS: LT-UNK

RC: None

NANO: NO

ROLE: Raw material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYETHYLENE TEREPHTHALATE (PET)

ID: 25038-59-9

%: 10.7500 - 10.7600 GS: LT-UNK RC: None NANO: NO ROLE: Raw material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TRIVALENT CHROMIUM COMPOUND

ID: 57693-14-8

%: 1.5000 - 2.5000 GS: LT-UNK RC: None NANO: NO ROLE: Dyestuff ingredient

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

12219-93-1

ID:

%: 1.2500 - 2.5000 GS: UNK RC: None NANO: NO ROLE: Dyestuff ingredient

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The system doesn't have the CAS number. It's Acid Green 73 (12219-93-1).

SODIUM SULFATE

ID: 7757-82-6

%: 0.5000 - 1.5000 GS: LT-UNK RC: None NANO: NO ROLE: Dyestuff ingredient

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TPU

%: 1.3700 - 1.3700 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes:

POLYURETHANE

ID: 64440-88-6

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: base resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ARM PAD BASE

%: 0.7700 - 0.7700 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes:

PROPYLENE

ID: 115-07-1

%: 89.0000 - 94.5000 GS: LT-UNK RC: None NANO: NO ROLE: Base resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H220 - Extremely flammable gas

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SUBSTANCE NOTES: Base resin

ETHYLENE

ID: 74-85-1

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

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PHYSICAL HAZARD (REACTIVE) EU - GHS (H-Statements) H220 - Extremely flammable gas

CANCER MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

NYLON 6

%: 0.5600 - 0.5600 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes:

%: 97.9900 - 97.9900 GS: LT-UNK RC: None NANO: NO ROLE: Resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYETHYLENE

ID: 9002-88-4

%: 2.0000 - 2.0000 GS: LT-UNK RC: None NANO: NO ROLE: Additive

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYURETHANE FOAM %: 0.4000 - 0.4000 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: No

Material Notes:

POLYURETHANE FOAMS

ID: 9009-54-5

%: 100.0000 - 100.0000 GS: LT-UNK RC: None NANO: NO ROLE: Resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

STEEL

%: 0.0400 - 0.0400 HPD URL:

Inventory Threshold: 100 ppm

Residuals Considered: No

Material Notes:



Section 3: Certifications and Compliance

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

MULTI-ATTRIBUTE

Level 2_Seating

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Piscataway, NJ Fresno, CA
CERTIFICATE URL:
http://www.humanscale.com/UserFiles/File/level2_seating_2015-2018.pdf
CERTIFICATION AND COMPLIANCE NOTES:

ISSUE
DATE:
2015-11-01

EXPIRY
DATE: 2018-
10-31

CERTIFIER OR
LAB: SCS Global
Services

VOC EMISSIONS

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Piscataway, NJ Fresno, CA
CERTIFICATE URL:
<http://productguide.ulenvironment.com/ProductDetail.aspx?productID=20479&BrandID=34>
CERTIFICATION AND COMPLIANCE NOTES:

Greenguard_Liberty Side

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2006- 03-16	2017-03- 17	UL Environment

VOC EMISSIONS

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Piscataway, NJ Fresno, CA
CERTIFICATE URL:
<http://productguide.ulenvironment.com/ProductDetail.aspx?productID=20479&BrandID=34>
CERTIFICATION AND COMPLIANCE NOTES:

Greenguard Gold_Liberty Side

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2013- 02-26	2017-03- 17	UL Environment

Section 4: Accessories

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

Section 5: General Notes

Legal Notice: This HPD lists only those known chemical ingredients in the Liberty Side chair as provided by Humanscale's suppliers, and that account for 0.01% or more of the total chair components. The listing of materials in this HPD represents all material ingredients 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 Liberty Side 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.



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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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

Hazard Types

- | | | |
|---------------------------------------|--|--|
| AQU Aquatic toxicity | GLO Global warming | PHY Physical Hazard (reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive toxicity |
| DEV Developmental toxicity | MUL Multiple hazards | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | OZO Ozone depletion | LAN Land Toxicity |
| GEN Gene mutation | PBT Persistent Bioaccumulative Toxic | NF Not found on Priority Hazard Lists |

GreenScreen (GS)

- | | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-P1 List Translator Possible Benchmark 1 |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-1 List Translator Likely Benchmark 1 |
| BM-2 Benchmark 2 (use but search for safer substitutes) | LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | UNK Unknown (no data on List Translator Lists) |
| BM-U Benchmark Unspecified (insufficient data to benchmark) | |

Recycled Types

- PreC** Preconsumer (Post-Industrial)
- PostC** Postconsumer
- Both** Both Preconsumer and Postconsumer
- Unk** Inclusion of recycled content is unknown
- None** Does not include recycled content

Other

- Nano** Composed of nanoscale particles or nanotechnology

Declaration Level

- Self-declared** Manufacturer's self-declaration (First Party)
- Independent Lab** Manufacturer's self-declaration using results from an independent lab
- Second Party** Verification by trade association or other interested party
- Third Party** Verification by independent certifier
- Applicable facilities** Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.