

CLASSIFICATION: 12 52 13 Seating - Chairs

PRODUCT DESCRIPTION: Emeco's collaboration with Norman Foster resulted in the "20-06" Stacking chair. Foster envisioned a more "neutral" stacking chair-visually and physically lightweight. But the 20-06 is also super strong-tested to 445Kg. Lord Norman Foster said "I appreciate the anonymous character of the 20-06 collection-it meshes seamlessly with our vision for interior space." This record covers all chairs and stools available in the 20-06 Collection.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

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

Residuals/Impurities

Residuals/Impurities
Considered in 3 of 3 Materials

Explanation(s) provided
for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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

20-06 FRAME [6061 ALUMINUM **LT-P1** | RES | END | PHY **NICKEL** **LT-1** | CAN | RES | SKI | MAM | MUL **LEAD (CONTAMINANT)** **LT-1** | MAM | DEL | CAN | PBT | REP | AQU | MUL | END | GEN] **STANDARD SOFT GLIDE [1,3-BUTANEDIOL, POLYMER WITH ALPHA-BUTYL-OMEGA-HYDROXPOLY(OXY(METHYL-1,2-ETHANEDIYL)) AND 1,3-DIISOCYANATOMETHYLBENZENE** **NoGS**] **STACK BUMPERS [CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS(PHENOL), 4-(1-METHYL-1-PHENYLETHYL)PHENYL ESTER** **NoGS**]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: Intertek ETL Environmental VOC+

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-04-04

PUBLISHED DATE: 2018-05-10

EXPIRY DATE: 2021-04-04



Section 2: Content in Descending Order of Quantity

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

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

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

20-06 FRAME

#: 99.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1, LT-P1 or NoGS have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES:

6061 ALUMINUM

ID: 7429-90-5

#: 100.0000

GS: LT-P1

RC: Both

NANO: No

ROLE: Base metal

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: Aluminum is anodized. Supplier confirms that Aluminum used consists of 10-20% post-consumer and 50-60% pre-consumer recycled content. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with form-specific hazards and metal alloy materials such as 6061 Aluminum. This HPD will be updated as appropriate when these guidelines become available.

NICKEL

ID: 7440-02-0

#: Impurity/Residual

GS: LT-1

RC: None

NANO: No

ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

IARC

Group 1 - Agent is Carcinogenic to humans

CANCER

IARC

Group 2b - Possibly carcinogenic to humans

CANCER

CA EPA - Prop 65

Carcinogen

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Potential impurity of 6061 Aluminum, based on information provided in supplier SDS. As per supplier SDS: "While Nickel is not intentionally added to this mixture, it could potentially enter through the recycle stream."

LEAD (CONTAMINANT)

ID: 7439-92-1

HAZARDS:	AGENCY(IES) WITH WARNINGS:
%: Impurity/Residual	GS: LT-1 RC: None NANO: No ROLE: Impurity/Residual
MAMMALIAN	EU - R-phrases R20 - Harmful by Inhalation (gas or vapor or dust/mist)
DEVELOPMENTAL	EU - R-phrases R61 - May cause harm to the unborn child
DEVELOPMENTAL	G&L - Neurotoxic Chemicals Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens (1986) Group B2 - Probable human Carcinogen
CANCER	IARC Group 2a - Agent is probably Carcinogenic to humans
CANCER	IARC Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65 Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65 Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP) Priority PBT
PBT	WA DoE - PBT PBT
REPRODUCTIVE	CA EPA - Prop 65 Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65 Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Priority PBTs (PPT) Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants Priority Persistent Pollutant - Tier 1

DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
CANCER	US NIH - Report on Carcinogens	Known to be a human Carcinogen

SUBSTANCE NOTES: Potential impurity of 6061 Aluminum, based on information provided in supplier SDS. As per supplier SDS: " While Lead is not intentionally added to this mixture, it could potentially enter through the recycle stream."

STANDARD SOFT GLIDE

#: 0.5000 - 0.6000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier SDS and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES: Glide inserted into leg bottom.

1,3-BUTANEDIOL, POLYMER WITH ALPHA-BUTYL-OMEGA-HYDROXYPOLY(OXY(METHYL-1,2-ETHANEDIYL)) AND 1,3-DIISOCYANATOMETHYLBENZENE

ID: 68400-67-9

#: 99.0000 - 100.0000

GS: NoGS

RC:

NANO:

ROLE: Thermoplastic resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

STACK BUMPERS

%: 0.0600 - 0.0700

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: As all substances present in this material fall below the Content Inventory Threshold indicated, no residuals or impurities from this material are possible above this threshold.

OTHER MATERIAL NOTES: Inserted into 20-06 Frame.

CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS(PHENOL), 4-(1-METHYL-1-PHENYLETHYL)PHENYL ESTER

ID: 111211-39-3

%: 100.0000

GS: NoGS

RC: None

NANO: No

ROLE: Thermoplastic resin

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority 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

Intertek ETL Environmental VOC+

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **Intertek**

APPLICABLE FACILITIES: **Emeco Industries, Hanover, PA
17331**

04-27

CERTIFICATE URL:

<http://www.intertek.com/directories/environmental-sustainability-solutions/etl-voc/>

CERTIFICATION AND COMPLIANCE NOTES: **Conforms to the ANSI/ BIFMA X7.1-2011 Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating, ANSI/ BIFMA M7.1-2011 Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components and Seating, and ANSI/ BIFMA e3-2014e Furniture Sustainability Standard Credits 7.6.1, 7.6.2 and 7.6.3 Low Emitting Furniture for Office Furniture Systems and Components emission criteria. Credit 7.6.3 demonstrates compliance to California Department of Public Health (CDPH) Standard Method v1.2 01350 (2017).**

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.

UPHOLSTERED SEAT PAD

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional upholstered seat pad. Compliant with CAL 133. C.O.M or C.O.L available. Please contact manufacturer if more information is required.

LEXAN® GLIDES

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional glides available. Lexan® is a hard plastic, suitable for use on carpeted floors, to reduce friction. Please contact manufacturer if more information is required.

GLIDES WITH FELT INSERTS

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Optional glides with integrated felt inserts are recommended for noise reduction on hard floors. Please contact manufacturer if more information is required.

Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: **emeco**

ADDRESS: **805 W Elm Avenue**

Hanover PA 17331, United States

WEBSITE: **www.emeco.net**

CONTACT NAME: **Gregg Buchbinder**

TITLE: **CEO**

PHONE: **7176375951**

EMAIL: **info@emeco.net**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

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

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

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

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

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

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

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