GeN2 Stream® by OTIS

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 142000

PRODUCT DESCRIPTION: Elevators (also known as “Lifts”) are designed for the transportation of persons, goods, and materials, and may have vertical or inclined trajectories. Elevator systems consist of subsystems and components, and may be powered via electrical or hydraulic energy. All new OTIS GeN2 elevators are machine-roomless, gearless elevators produced by OTIS’ manufacturing facilities across Europe, and distributed and operated nationwide within Europe. This declaration covers the GeN2 Stream® elevators range manufactured at OTIS owned and operated sites, or purchased from a Tier 1 suppliers. All components are then shipped through the OTIS owned and operated distribution center (DC), and distributed for assembly at the installation site.

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
- ○ Per OSHA MSDS
- ○ Other

Residuals/Impurities

- ○ Considered
- ○ Partially Considered
- ◉ Not Considered

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

GEN2 STREAM® [STEEL (STEEL) NoGS PUMICE (PUMICE) LT-UNK STAINLESS STEEL (STAINLESS STEEL) NoGS POLYVINYL CHLORIDE (PVC) (POLYVINYL CHLORIDE (PVC)) LT-P1 | RES PORTLAND CEMENT (PORTLAND CEMENT) LT-P1 | END | CAN ZINC (ZINC) LT-P1 | AQU | END | MUL | PHY ALUMINUM (ALUMINUM) LT-P1 | RES | END | PHY IRON (IRON) LT-P1 | END COPPER (COPPER) LT-UNK SOLID / PLATE GLASS (SOLID / PLATE GLASS) LT-UNK WATER (WATER) BM-4 POLYURETHANE (POLYURETHANE) LT-UNK IRON OXIDE (IRON OXIDE) LT-UNK NYLON 6 (NYLON 6) LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

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

VOC emissions: ISO 16000

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-11-22
PUBLISHED DATE: 2018-04-10
EXPIRY DATE: 2020-11-22

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

GEN2 STREAM®

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: Since the majority of the elevator is made of steel and there are no warnings found on HPD priority lists for steels, residuals and impurities were not considered.

OTHER PRODUCT NOTES:

STEEL (STEEL)

ID: 12597-69-2

%: 63.0000 - 68.0000 GS: NoGS RC: Both NANO: No ROLE: various car, machine, and mounting components

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

PUMICE (PUMICE)

ID: 1332-09-8

%: 9.0000 - 14.0000 GS: LT-UNK RC: PostC NANO: No ROLE: counterweight

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

STAINLESS STEEL (STAINLESS STEEL)

ID: 12597-68-1

%: 7.0000 - 12.0000 GS: NoGS RC: Both NANO: No ROLE: various car, machine, and mounting components

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

POLYVINYL CHLORIDE (PVC) (POLYVINYL CHLORIDE (PVC))

ID: 9002-86-2

%: **1.5000 - 2.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **wiring**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

PORTLAND CEMENT (PORTLAND CEMENT)

ID: **65997-15-1**

%: **1.5000 - 2.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **counterweight, concrete component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

ZINC (ZINC)

ID: **7440-66-6**

%: **1.2000 - 1.7000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **steel coating**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

ALUMINUM (ALUMINUM)

ID: **91728-14-2**

%: **1.2000 - 1.7000** GS: **LT-P1** RC: **PreC** NANO: **No** ROLE: **various car and door components**

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: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

IRON (IRON)

ID: 7439-89-6

%: 0.7500 - 1.2500 GS: LT-P1 RC: None NANO: No ROLE: counterweight

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

COPPER (COPPER)

ID: 7440-50-8

%: 0.7500 - 1.2500 GS: LT-UNK RC: None NANO: No ROLE: wiring, electronic components

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

SOLID / PLATE GLASS (SOLID / PLATE GLASS)

ID: 65997-17-3

%: 0.4000 - 0.8000 GS: LT-UNK RC: None NANO: No ROLE: mirror and lighting

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

WATER (WATER)

ID: 7732-18-5

%: 0.2500 - 0.7500 GS: BM-4 RC: None NANO: No ROLE: counterweight, concrete component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

POLYURETHANE (POLYURETHANE)

ID: 64440-88-6

%: 0.2000 - 0.6000 GS: LT-UNK RC: None NANO: No ROLE: ropes

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

IRON OXIDE (IRON OXIDE)

ID: 1332-37-2

%: 0.0200 - 0.3000 GS: LT-UNK RC: None NANO: No ROLE: counterweight, concrete component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

NYLON 6 (NYLON 6)

ID: 25038-54-4

%: 0.0100 - 0.3000 GS: LT-UNK RC: None NANO: No ROLE: wiring

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Otis France and its suppliers.

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 — **ISO 16000**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: All
CERTIFICATE URL:

ISSUE DATE: 2011-03-23

EXPIRY DATE:

CERTIFIER OR LAB: Eurofins Product Testing A/S

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.

WD-40 — HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Used for cleaning during typical installation. VOC content: 412 g/L

BOSTIK GLUE — HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
For all installations. Zero VOC formulation.

Section 5: General Notes

This Health Product Declaration was completed by thinkstep.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **OTIS**
ADDRESS: **New Equipment Center**
Avenue des Montoires
 Gien CEDEX Loiret
45504, France
WEBSITE:
http://www.otis.com/site/fr/pages/default.aspx

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

GreenScreen (GS)

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

Recycled Types

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

Other Terms
Inventory Methods:

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

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

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

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

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

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

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this

HPD and for compliance with the HPD standard noted.