Automatic Revolving Door KTC 3/4
by dormakaba

CLASSIFICATION: 08 42 33 - Revolving Door Entrances

PRODUCT DESCRIPTION: The revolving doors of the COMFORTLINE (KTC) series combine safety and comfort in a sophisticated entrance system. KTC series doors help to protect building interiors from drafts, noise and dirt. In minimizing airflow between the outside and inside, a revolving door will usually pay for itself in energy savings. KTC series revolving doors help pedestrians move in and out of the building and manage high traffic volumes without difficulty. And all KTC series doors offer modern safety and security systems. In addition, the pivot-mounted wings will fold out in any position to provide a clear escape route. The KTC is also the perfect solution for high user convenience. KTC 3/4 revolving doors are characterized by their especially generous diameters. They are the optimal solution for heavy-duty applications.

Section 1: Summary

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

Are All Substances Above the Threshold Indicated:
- Yes
- No

Characterized
- Percent Weight and Role Provided?
- Yes
- No

Screened
- Using Priority Hazard Lists with Results Disclosed?
- Yes
- No

Identified
- Name and Identifier Provided?
- 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
--- | --- | --- | --- | ---
AUTOMATIC REVOLVING DOOR KTC 3/4 | STEEL | SOLID / PLATE | LT-UNK | RES
GLASS | LT-UNK | ALUMINUM | LT-P1 | CLP
WOOD | UNK | STAINLESS STEEL | NoGS | END
STYRENE BUTADIENE RUBBER (SBR) | LT-UNK | POWDER COAT | UNK | HORSEHAIR
DORMAKABA BTS 80 | UNK | IRON | LT-P1 | END
POLYPROPYLENE | LT-UNK | COPPER | LT-P1 | NYLON
POLYCARBONATE | LT-UNK | HEXANEDIOIC ACID, POLYMER WITH 1,4-BUTANEDIOL AND 1,1'-METHYLENEBIS[4-ISOCYANATOZENZEN] (HEXANEDIOIC ACID, POLYMER WITH 1,4-BUTANEDIOL AND 1,1'-METHYLENEBIS[4-ISOCYANATOZENZEN]) | LT-UNK | PRINTED WIRING BOARD (PWB)
HYDRAULIC FLUIDS | LT-UNK | NOGS | UNK

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2017-04-04
PUBLISHED DATE: 2017-12-13
EXPIRY DATE: 2020-04-04

Automatic Revolving Door KTC 3/4
hpdrepository.hpd-collaborative.org

HPD v2.1 created via HPDC Builder Page 1 of 8
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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### AUTOMATIC REVOLVING DOOR KTC 3/4

<table>
<thead>
<tr>
<th>Material</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL</td>
<td>12597-69-2</td>
<td>25.80</td>
<td>NoGS</td>
<td>Both</td>
<td>No</td>
<td>Profiles, bearings, brackets, screws and fasteners</td>
</tr>
<tr>
<td>SOLID / PLATE GLASS</td>
<td>65997-17-3</td>
<td>25.61</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Wings and drum walls</td>
</tr>
<tr>
<td>ALUMINUM</td>
<td>7429-90-5</td>
<td>21.08</td>
<td>LT-P1</td>
<td>Both</td>
<td>No</td>
<td>Electronic components, canopy and profiles</td>
</tr>
</tbody>
</table>

### RESIDUALS AND IMPURITIES CONSIDERED

No residuals or impurities are expected in these materials at or above the inventory threshold.

### OTHER PRODUCT NOTES

- No residuals or impurities are expected in these materials at or above the inventory threshold.

### HAZARDS

#### RESPIRATORY
- AOE - Asthmagens

#### ENDOCRINE
- TEDX - Potential Endocrine Disruptors

#### PHYSICAL HAZARD (REACTIVE)
- EU - GHS (H-Statements) H228 - Flammable solid
- EU - GHS (H-Statements) H250 - Catches fire spontaneously if exposed to air
- EU - GHS (H-Statements) H261 - In contact with water releases flammable gases
SUBSTANCE NOTES: The hazards associated with aluminum are dependent upon the form in which aluminum is provided. As aluminum is inert upon receipt by dormakaba and unlikely to leach from the revolving door into the environment, the risk of exposure to aluminum components is negligible and the listed hazards can be deemed irrelevant to the end-user.

CHIPBOARD

<table>
<thead>
<tr>
<th>%: 12.2200</th>
<th>GS: UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Chipboard</th>
</tr>
</thead>
</table>

HAZARDS: None Found

None warnings found on HPD Priority lists

SUBSTANCE NOTES: Electronics are considered Special Conditions Materials by HPDC.

WOOD

<table>
<thead>
<tr>
<th>%: 5.1800</th>
<th>GS: UNK</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Installation material</th>
</tr>
</thead>
</table>

HAZARDS: None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: -

STAINLESS STEEL

<table>
<thead>
<tr>
<th>%: 3.1700</th>
<th>GS: NoGS</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Sheetmetal, brackets and profiles</th>
</tr>
</thead>
</table>

HAZARDS: None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: -

STYRENE BUTADIENE RUBBER (SBR)

<table>
<thead>
<tr>
<th>%: 2.5700</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Glazing seals and safety bumpers</th>
</tr>
</thead>
</table>

HAZARDS: None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: -

POWDER COAT

<table>
<thead>
<tr>
<th>%: 0.9800</th>
<th>GS: UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Powder coat</th>
</tr>
</thead>
</table>

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: -
### Substance Notes

- Powder coatings are considered Special Conditions Materials by HPDC.
- None Found
- No warnings found on HPD Priority lists

### Horsehair

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>Hazards: AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not registered</td>
<td>0.980</td>
<td>UNK</td>
<td>Both</td>
<td>No</td>
<td>Weatherstripping</td>
<td>None Found</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dormakaba BTS 80

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>Hazards: AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undisclosed</td>
<td>0.540</td>
<td>UNK</td>
<td>None</td>
<td>No</td>
<td>Door closer</td>
<td>None Found</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Iron

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>Hazards: AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-89-6</td>
<td>0.430</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Installation material</td>
<td>ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Polypropylene

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>Hazards: AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-07-0</td>
<td>0.400</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Tape</td>
<td>None Found</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Copper

<table>
<thead>
<tr>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>Hazards: AGENCY(IES) WITH WARNINGS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-50-8</td>
<td>0.230</td>
<td>LT-P1</td>
<td>UNK</td>
<td>No</td>
<td>Electronic components and cables</td>
<td>None Found</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Substance Notes:</td>
<td>NYLON</td>
<td>POLYCARBONATE</td>
<td>HEXANEDIOIC ACID, POLYMER WITH 1,4-BUTANEDIOL AND 1,1′-METHYLENEBIS[4-ISOCYANATOBENZENE]</td>
<td>PRINTED WIRING BOARD (PWB)</td>
<td>HYDRAULIC FLUIDS</td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
<td>---------------</td>
<td>-------------------------------------------------</td>
<td>---------------------------</td>
<td>-----------------</td>
<td></td>
</tr>
<tr>
<td>ID: 63428-83-1</td>
<td>ID: 25037-45-0</td>
<td>ID: 26375-23-5</td>
<td>ID: Undisclosed</td>
<td>ID: 55957-10-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%: 0.2300</td>
<td>%: 0.2200</td>
<td>%: 0.1700</td>
<td>%: 0.1600</td>
<td>%: 0.0100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GS: NoGS</td>
<td>GS: LT-UNK</td>
<td>GS: LT-UNK</td>
<td>GS: UNK</td>
<td>GS: NoGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC: None</td>
<td>RC: None</td>
<td>RC: None</td>
<td>RC: None</td>
<td>RC: None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NANO: No</td>
<td>NANO: No</td>
<td>NANO: No</td>
<td>NANO: No</td>
<td>NANO: No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROLE: Installation material</td>
<td>ROLE: Component covers</td>
<td>ROLE: Sealant</td>
<td>ROLE: Printed Wiring Board (PWB)</td>
<td>ROLE: Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAZARDS: None Found</td>
<td>HAZARDS: None Found</td>
<td>HAZARDS: None Found</td>
<td>HAZARDS: None Found</td>
<td>HAZARDS: None Found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGENCY(IES) WITH WARNINGS: None Found</td>
<td>AGENCY(IES) WITH WARNINGS: None Found</td>
<td>AGENCY(IES) WITH WARNINGS: None Found</td>
<td>AGENCY(IES) WITH WARNINGS: None Found</td>
<td>AGENCY(IES) WITH WARNINGS: None Found</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBSTANCE NOTES: No warnings found on HPD Priority lists</td>
<td>SUBSTANCE NOTES: No warnings found on HPD Priority lists</td>
<td>SUBSTANCE NOTES: No warnings found on HPD Priority lists</td>
<td>SUBSTANCE NOTES: Electronics are considered Special Conditions Materials by HPDC.</td>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

LCA

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Suzhou, China
CERTIFICATE URL: https://www.dormakaba.com/resource/blob/60546/d9526993df092e2e5b44537f90351c83/epd-ktc-3-4-en-data.pdf

Environmental Product Declaration

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

Dorma and Kaba become dormakaba - a smart step for smart access solutions. We offer products, solutions and services for secure access to buildings and rooms - now all from a single source. With more than 150 years of experience, we stand for security, sustainability and reliability. For more information, please go to: www.dormakaba.com. The information contained in this HPD is to be used only as a voluntary information on our products. dormakaba makes no representation or warranty as to the completeness or accuracy of the information contained herein. The products and specifications set forth in this HPD are subject to change without notice and dormakaba disclaims any and all liability for such changes. The information contained herein is provided without warranties of any kind, either express or implied, and dormakaba disclaims any and all liability for typographical, printing, or production errors or changes affecting the specifications contained herein. dormakaba DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL dormakaba
LIABLE FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FROM THE SALE OR USE OF ANY PRODUCT. All sales of products shall be subject to dormakaba’s applicable General Terms and Conditions, a copy of which will be provided by your local dormakaba organisation upon request.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: dormakaba
ADDRESS: Hofwisenstrasse 24
Rümlang ZH 8153, Switzerland
WEBSITE: www.dormakaba.com

CONTACT NAME: Lea Kullmann
TITLE: Manager Sustainable Projects
PHONE: +41 44 818 91 11
EMAIL: sustainability@dormakaba.com

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.