Manual Revolving Door KTV M
by dormakaba

CLASSIFICATION: 08 42 33 - Revolving Door Entrances

PRODUCT DESCRIPTION: dormakaba revolving doors hold back noise, dust and dirt, reliably protect employees near the entrances from drafts, and help to keep heating costs down. The revolving doors of the VARIOLINE (KTV) series are exceptionally versatile. They combine elegance with functionality and are available with different options. Manual revolving doors (KTV M) are activated and rotated by the user pushing a handle. They offer the following benefits: Flexible system to suit all requirements, easy installation and rapid commissioning, guaranteed state-of-the-art design and compliance with all regulations, extensive design flexibility in terms of planning and technical requirements, visually/technically/economically the ideal application, assured quality, optimization of the building energy balance, efficient noise protection, possible operation by any user, solid processing, easy and simple use.

Section 1: Summary

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
--- | --- | --- | --- | ---
MANUAL REVOLVING DOOR KTV M | SOLID / PLATE GLASS | LT-UNK | | |
ALUMINUM | LT-P1 | RES | END | |
PHY STEEL | NGGS | STAINLESS STEEL | NGGS | |
CHIPBOARD | NGGS | POWDER COAT | NGGS | |
HORSEHAIR | UNK | STYRENE | UNK | |
BUTADIENE RUBBER (SBR) | LT-UNK | POLYPROPYLENE | LT-UNK | |
WOOD | UNK | NYLON | NGGS | |
PRINTED WIRING BOARD (PWB) | NGGS | COPPER | 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.

LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed

--- | --- | ---
Yes | VERIFIER: | PUBLISHED DATE: 2017-12-13
No | VERIFICATION #: | EXPIRY DATE: 2020-04-04
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

MANUAL REVOLVING DOOR KTV M

PRODUCT THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: No
RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are expected in these materials at or above the inventory threshold.
OTHER PRODUCT NOTES: -

SOLID / PLATE GLASS

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.4500</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Wings and drum walls</td>
</tr>
</tbody>
</table>

HAZARDS:
None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ALUMINUM

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.1100</td>
<td>LT-P1</td>
<td>Both</td>
<td>No</td>
<td>Electronic components, canopy and profiles</td>
</tr>
</tbody>
</table>

HAZARDS:
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: 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.

STEEL

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0500</td>
<td>NoGS</td>
<td>Both</td>
<td>No</td>
<td>Profiles, bearings, brackets, screws and fasteners</td>
</tr>
</tbody>
</table>

HAZARDS:

SUBSTANCE NOTES:
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAINLESS STEEL</td>
<td>12597-68-1</td>
<td>8.0500</td>
<td>NoGS</td>
<td>Both</td>
<td>No</td>
<td>Sheetmetal, brackets and profiles</td>
</tr>
<tr>
<td>CHIPBOARD</td>
<td>Undisclosed</td>
<td>3.8600</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Chipboard</td>
</tr>
<tr>
<td>POWDER COAT</td>
<td>Undisclosed</td>
<td>1.4000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Powder coat</td>
</tr>
<tr>
<td>HORSEHAIR</td>
<td>Not registered</td>
<td>0.8100</td>
<td>UNK</td>
<td>Both</td>
<td>No</td>
<td>Weatherstripping</td>
</tr>
<tr>
<td>STYRENE BUTADIENE RUBBER (SBR)</td>
<td>9003-55-8</td>
<td>0.7300</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Glazing seals</td>
</tr>
<tr>
<td>Substance</td>
<td>ID</td>
<td>%</td>
<td>GS</td>
<td>RC</td>
<td>NANO</td>
<td>ROLE</td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>------</td>
<td>------</td>
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<td>-----------------------------</td>
</tr>
<tr>
<td>POLYPROPYLENE</td>
<td>9003-07-0</td>
<td>0.2100</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Tape</td>
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<tr>
<td>WOOD</td>
<td>Not registered</td>
<td>0.1700</td>
<td>UNK</td>
<td>Both</td>
<td>No</td>
<td>Installation material</td>
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<tr>
<td>NYLON</td>
<td>63428-83-1</td>
<td>0.1300</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Installation material</td>
</tr>
<tr>
<td>PRINTED WIRING BOARD (PWB)</td>
<td>Undisclosed</td>
<td>0.0200</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Printed Wiring Board (PWB)</td>
</tr>
<tr>
<td>COPPER</td>
<td>7440-50-8</td>
<td>0.0100</td>
<td>LT-P1</td>
<td>UNK</td>
<td>No</td>
<td>Electronic components and cables</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES:
- POLYPROPYLENE
- WOOD
- NYLON
- PRINTED WIRING BOARD (PWB)
- COPPER

Electronics are considered Special Conditions Materials by HPDC.
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

Environmental Product Declaration

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>Sofia, Bulgaria and Dubai, United Arab Emirates</td>
</tr>
</tbody>
</table>

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 BE 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 is available on our website.
Section 6: References

MANUFACTURER INFORMATION

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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.