Automatic Sliding Door Operator ES 200
by dormakaba

Health Product Declaration v2.1.1
created via: HPDC Builder

CLASSIFICATION: 08 42 29.23 - Sliding Automatic Entrances

PRODUCT DESCRIPTION: The ES 200 is an automatic sliding door operator suitable for multiple applications including emergency exits and escape routes. Tested to 1,000,000 cycles, the ES 200 is a high quality, high performing modular automatic sliding door operator unit giving reliable performance. Additional modules and options facilitate made-to-measure solutions for automatic sliding doors.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
<th>All Substances Above the Threshold Indicated Are:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Considered</td>
<td>Characterized Yes Ex/SC Yes No % weight and role provided for all substances except SC substances characterized according to SC guidance.</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Partially Considered</td>
<td>Screened Yes Ex/SC Yes No All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</td>
</tr>
<tr>
<td>Material</td>
<td>Per GHS SDS</td>
<td>Not Considered</td>
<td>Identified Yes Ex/SC Yes No All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.</td>
</tr>
<tr>
<td>Product</td>
<td>Per OSHA MSDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Threshold Disclosed Per

- Material
- Product

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities? 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 SLIDING DOOR OPERATOR ES 200 | ALUMINUM NoGS STEEL NoGS ZINC LT-P1 | [AQ] | PHY | END | MUL POLY(OXYMETHYLENE) NoGS ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER LT-UNK IRON OXIDE BM-1 | CAN:SCABLE Not Screened SC:CIRCUIT BOARD Not Screened COPPER LT-P1 | MUL STAINLESS STEEL NoGS |

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
Special conditions applied: Electronics [LEED v4] “Yes ex/SC” result is due only to materials and substances for which Special Conditions were applied. Thus “Yes ex/SC” does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This HPD was created with Basic Method. Substances are listed by weight in the entire product instead of by material. All substances over 1000 ppm or 100 ppm of the product are reported.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: N/A
LCA: Environmental Product Declaration ES 200

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: 2020-05-05
PUBLISHED DATE: 2020-05-06
EXPIRY DATE: 2023-05-05
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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

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**AUTOMATIC SLIDING DOOR OPERATOR ES 200**

**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. dormakaba products consist of finished components, and no chemical reactions are needed to develop our products.

**OTHER PRODUCT NOTES:** -

### ALUMINUM

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%: 70.00</th>
<th>GS: NoGS</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Header extrusion</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
None found

**WARNINGs**  
No warnings found on HPD Priority Hazard Lists

**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 product 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

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%: 18.30</th>
<th>GS: NoGS</th>
<th>RC: Both</th>
<th>NANO: No</th>
<th>ROLE: Carrier and mini-drive-unit</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
None found

**WARNINGs**  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** 11SMnPb28, DC04, DC01/DD1, E235, Electrical M800-50A, 100Cr6, 11SMn30, Molybdenum Steel C45, 20MnB4, Sint-B10

### ZINC

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%: 3.00</th>
<th>GS: LT-P1</th>
<th>RC: UNK</th>
<th>NANO: No</th>
<th>ROLE: Mini-drive-unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H250 - Catches fire spontaneously if exposed to air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H260 - In contact with water releases flammable gases which may ignite spontaneously</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** ZP0410

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**POLY(OXYMETHYLENE)**  
ID: 9002-81-7

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Carrier</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
None found

**WARNINGS**  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** -

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**ACYRONITRILE-BUTADIENE-STYRENE COPOLYMER**  
ID: 9003-56-9

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>LT-UNK</td>
<td>UNK</td>
<td>No</td>
<td>Raceway</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
None found

**WARNINGS**  
No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** -

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**IRON OXIDE**  
ID: 1317-61-9

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>BM-1</td>
<td>UNK</td>
<td>No</td>
<td>Mini-drive-unit</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
None found

**WARNINGS**  
Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
### SC:CABLE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>Not Screened</td>
<td>UNK</td>
<td>No</td>
<td>Cable</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**WARNINGS**

Hazard Screening not performed

**SUBSTANCE NOTES:**

Version: SCElec/2018-02-23  
Brief Description: In electrical engineering and information technology, cables are generally defined as a single or multi-core compound of wires (single conductors) sheathed with insulating material, which serves to transmit energy or information. Usually, different plastics are used as insulating materials, which surround the cores used as conductors and insulate them from each other. Electrical conductors are usually made of copper, more rarely of aluminium or suitable metal alloys.

Compliance: No Entry  
Takeback Program: No Entry

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### SC:CIRCUIT BOARD

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>Not Screened</td>
<td>UNK</td>
<td>No</td>
<td>Circuit board</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**WARNINGS**

Hazard Screening not performed

**SUBSTANCE NOTES:**

Version: SCElec/2018-02-23  
Brief Description: A printed circuit board (PCB) is a carrier for electronic components. It is used for mechanical fastening and electrical connection. Almost every electronic device contains one or more printed circuit boards.

Printed circuit boards consist of electrically insulating material with conductive connections (conductor paths) adhering to it. Fibre-reinforced plastic is used as the insulating material, while hard paper is used for cheaper devices. The conductor paths are usually etched from a thin layer of copper, usually 35 µm. The components are soldered on solder pads or in pads. In this way, they are mechanically held and electrically connected to these footprints. Larger components can also be attached to the circuit board with cable ties, adhesive or screw connections.

Compliance: No Entry  
Takeback Program: No Entry

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### COPPER

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-05-05

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50</td>
<td>LT-P1</td>
<td>Both</td>
<td>No</td>
<td>Mini-drive-unit</td>
</tr>
</tbody>
</table>

---
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**STAINLESS STEEL**

ID: 12597-68-1

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE:</th>
<th>2020-05-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
<td>0.20</td>
<td>GS: NoGS</td>
<td>RC: Both</td>
</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td>NANO: No</td>
</tr>
</tbody>
</table>

None found

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:**

- 304

Automatic Sliding Door Operator E5 200

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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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2020-05-05</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: This HPD is for a product that is NOT liquid/wet applied.

Environmental Product Declaration ES 200

| CERTIFYING PARTY: | Third Party |
| APPLICABLE FACILITIES: | Ennepetal, Germany / Bonn, Germany |
| ISSUE DATE: | 2016-04-29 |
| EXPIRY DATE: | 2021-04-28 |
| CERTIFIER OR LAB: | IBU |

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

dormakaba has resulted from the merger of the two well-established brands Dorma and Kaba, both known for their expertise in the area of smart and secure access solutions. Together we stand for more than 150 years of security and reliability. Our master brand dormakaba stands for our offering of products, solutions and services for secure access to buildings and rooms from a single source. Our global brand power supports us to become the trusted industry leader. For more information, please go to: www.dormakaba.com.

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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/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)

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.

Automatic Sliding Door Operator ES 200

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