Concealed Door Closer BTS 80 EMB (Floor spring) by dormakaba

CLASSIFICATION: 08 71 00 DOOR HARDWARE

PRODUCT DESCRIPTION: DORMAKABA'S BTS 80 EMB CONCEALED DOOR CLOSER REPRESENT THE LATEST IN BUILDERS HARDWARE TECHNOLOGY. THE CLOSER CAN BE USED IN A NUMBER OF DIFFERENT CONFIGURATIONS, INCLUDING STANDARD, NARROW, OR WIDEN DOORS, AS WELL AS LEFT-HAND AND RIGHT-HAND SINGLE- OR DOUBLE-ACTION MOUNTING (BOTH SINGLE AND DOUBLE LEAF DOORS, INCLUDING DOUBLE LEAF DOORS IN COMBINATION WITH A BSR DOOR COORDINATOR). A COMPACT BODY PERMITS USE WHERE LARGER CLOSERS WOULD BE PROHIBITIVE, AND A COMPREHENSIVE SELECTION OF ACCESSORIES, ENSURES THAT THE BTS 80 EMB CAN BE USED SUCCESSFULLY WITH A WIDE VARIETY OF DOOR CONSTRUCTIONS AND FLOOR COVERINGS.

### Section 1: Summary

#### CONTENT INVENTORY

Residuals and impurities considered in 0 of 1 materials

<table>
<thead>
<tr>
<th>Threshold per material</th>
<th>Residuals and impurities considered in 0 of 1 materials</th>
<th>(see Section 2: Material Notes)</th>
<th>(see Section 5: General Notes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 ppm</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>1,000 ppm</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Per GHS SDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per OSHA MSDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on the selected Content Inventory Threshold:

- Characterized: Are the Percent Weight and Role provided for all substances? Yes
- Screened: Are all substances screened using Priority Hazard Lists with results disclosed? Yes
- Identified: Are all substances disclosed by Name (Specific or Generic) and Identifier? Yes

#### 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**

| CONCEALED DOOR CLOSER BTS 80 EMB (FLOOR SPRING) | IRON LT-P1 | END | STEEL NoGS | LUBRICATING OILS | LUB | CAN | PBT | MUL | ZINC LT-P1 | AQU | MUL | END | PHY | BRASS NoGS | COPPER LT-LINK 304 STAINLESS STEEL NoGS | ALUMINUM LT-P1 | RES | PHY | END |

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 HPD was created with Basic Inventory. 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

LCA: Environmental Product Declaration
LCA: Environmental Product Declaration

See Section 3 for additional listings.
This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; “Not Found” does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

<table>
<thead>
<tr>
<th>Material Notes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONCEALED DOOR CLOSER BTS 80 EMB (FLOOR SPRING)</strong></td>
<td>%: 100.0000  HPD URL:</td>
</tr>
<tr>
<td>Inventory Threshold: 100 ppm</td>
<td>Residuals Considered: No</td>
</tr>
<tr>
<td>Material Notes:</td>
<td></td>
</tr>
<tr>
<td><strong>IRON</strong></td>
<td>ID: 7439-89-6</td>
</tr>
<tr>
<td>%: 54.0200</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td></td>
<td>RC: Both</td>
</tr>
<tr>
<td></td>
<td>NANO: NO</td>
</tr>
<tr>
<td>ROLE: Closer body</td>
<td></td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
</tr>
<tr>
<td></td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
</tr>
<tr>
<td><strong>STEEL</strong></td>
<td>ID: 12597-69-2</td>
</tr>
<tr>
<td>%: 37.1400</td>
<td>GS: NoGS</td>
</tr>
<tr>
<td></td>
<td>RC: Both</td>
</tr>
<tr>
<td></td>
<td>NANO: NO</td>
</tr>
<tr>
<td>ROLE: Closer body</td>
<td></td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
</tr>
<tr>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
</tr>
<tr>
<td>SUBSTANCE NOTES:</td>
<td></td>
</tr>
<tr>
<td><strong>LUBRICATING OILS</strong></td>
<td>ID: 74869-22-0</td>
</tr>
<tr>
<td>%: 4.0700</td>
<td>GS: LT-1</td>
</tr>
<tr>
<td></td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: NO</td>
</tr>
<tr>
<td>ROLE: Hydraulic fluid</td>
<td></td>
</tr>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - R-phrases</td>
</tr>
<tr>
<td></td>
<td>R45 - May cause cancer</td>
</tr>
<tr>
<td>PBT</td>
<td>EC - CEPA DSL</td>
</tr>
<tr>
<td></td>
<td>Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-statements)</td>
</tr>
<tr>
<td></td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
</tr>
<tr>
<td></td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
</tbody>
</table>
### ZINC

**ID:** 7440-66-6  
**%:** 2.7500  
**GS:** LT-P1  
**RC:** None  
**NANO:** NO  
**ROLE:** Closer body

**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

**MULTIPLE**  
German FEA - Substances Hazardous to Waters  
Class 2 - Hazard to Waters

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**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:** Die-cast closer components. The hazards associated with zinc are dependent upon the form in which zinc is provided. As zinc is inert upon receipt by dormakaba and unlikely to leach from the closer into the environment, the risk of exposure to zinc components is negligible and the listed hazards can be deemed irrelevant to the end-user.

### BRASS

**ID:** 12597-71-6  
**%:** 1.1600  
**GS:** NoGS  
**RC:** Both  
**NANO:** NO  
**ROLE:** Closer body

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**

### COPPER

**ID:** 7440-50-8  
**%:** 0.4800  
**GS:** LT-UNK  
**RC:** Both  
**NANO:** NO  
**ROLE:** Electrical cable

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### HAZARDS:

**None Found**

No warnings found on HPD Priority lists

### SUBSTANCE NOTES:

#### 304 STAINLESS STEEL

- **ID:** 12597-68-1  
- **%:** 0.2400  
- **GS:** NoGS  
- **RC:** Both  
- **NANO:** NO  
- **ROLE:** Screws

#### ALUMINUM

- **ID:** 91728-14-2  
- **%:** 0.1400  
- **GS:** LT-P1  
- **RC:** Both  
- **NANO:** NO  
- **ROLE:** Closer body

#### HAZARDS:

**RESPIRATORY**  
AOEC - Asthmagens  
Asthmagen (ARs) - sensitizer-induced - inhalable forms only

**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

**ENDOCRINE**  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

### SUBSTANCE NOTES: Aluminum Alloy (Mixture)

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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.

**LCA**

- **CERTIFYING PARTY:** Third Party  
- **APPLICABLE FACILITIES:** dormakaba facilities Germany  
- **CERTIFICATE URL:**  
- **CERTIFICATION AND COMPLIANCE NOTES:**

**Environmental Product Declaration**

- **ISSUE DATE:** 2014-10-28  
- **EXPIRY DATE:** 2019-10-27  
- **CERTIFIER OR LAB:** UL Environment

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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.

Section 5: General Notes

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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
NEU Neurotoxicity
MUL Multiple hazards
PHY Physical Hazard (reactive)
RES Respiratory sensitization
SKU Skin sensitization/ irritation/ corrosion
LAN Land Toxicity

EYE Eye irritation/corrosivity
GEN Gene mutation

PBT Persistent Bioaccumulative Toxic
OZO Ozone depletion
OZO Ozone depletion

GreenScreen (GS)

BM-4 Benchmark 4 (prefer- safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement) BM-2
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)
UNK 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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer’s self-declaration (First Party)
Independent Lab Manufacturer’s self-declaration using results from an independent lab
Second Party Verification by trade association or other interested party
Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a “Health Product Declaration,” or “HPD.” 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 Open Standard noted.