DORMA Concealed Closers: BTS 84, RTS 85 and RTS 88 Series

**Product ID**
BTS 84, RTS 85 and RTS 88 Series Concealed Door Closers

**Classification**
08 71 00.00 Openings (door ways): Door Hardware

**Website**
www.dorma-usa.com

**Manufacturer**
DORMA
DORMA Americas
Dorma Drive, Drawer AC
Reamstown, PA 17567

**Website**
www.dorma-usa.com

**Contact Name**
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**Title**
Director of Brand Marketing
**Phone**
800-523-8483
**Email**
archdw@dorma-usa.com

**Description**
DORMA’s RTS 85, RTS 88, and BTS 84 Series concealed door closers offer a solution for installations where door control must be provided without disturbing aesthetic appearance or compromising durability. They can be installed a number of different configurations, including in standard, narrow or wide door frames, as well as with left-hand or right-hand single- or double-action mounting. The closers are designed for a wide variety of doors and represent an excellent alternative to surface-mounted closers. A comprehensive selection of accessories ensures that they can be used successfully with a wide variety of door constructions and floor coverings.

**Release Date**
2015-09-23
**Expiry Date**
2018-09-23
**HPD URL**

**SUMMARY DISCLOSURE**
The content of this product was assessed for health hazard warnings as required using Pharos

**Residuals Disclosure**
- Measured 100 ppm (ideal)
- Measured 1,000 ppm
- Predicted by process chemistry
- As per MSDS (1,000 & 10,000 ppm)
- Not disclosed
- Other

**Full Disclosure of Intentional Ingredients**
- Yes
- No

**Full Disclosure of Known Hazards**
- Yes
- No

**Disclosure Notes**
There are no residuals that exist in the product at concentrations of 1,000 ppm or greater. Given that over 99% of the product is comprised of metals and hydraulic fluid, any residuals predicted by the HBN Pharos tool stem from the remaining intentional content that constitutes less than 1% of the product. These residuals are thus expected to be under the 1,000 ppm threshold.

**Contents in Descending Order of Quantity**
IRON, Steel, LUBRICATING OILS, Aluminum Alloy (Mixture), Steel, Acrylic Polymer, EPICHLOROHYDRIN-BISPHENOL A RESIN

**Hazard Tags**
- PBT (Persistent Bioaccumulative Toxic)
- Cancer
- Development
- Reproductive
- Endocrine
- Respiratory
- Neurotoxicity
- Mammal
- Land toxicity
- Physical hazard
- Skin or Eye
- Aquatic toxicity
- Global warming
- Ozone depletion
- Multiple
- Unknown

**Total VOC Content**
Material (g/L) N/A
Regulatory (g/L) N/A

**Notes**
Does the product contain exempt VOCs?
- N/A
- Yes
- No

Are there VOC-free tints available?
- N/A
- Yes
- No

**Certifications + Compliance**
VOC Emissions Not tested
VOC Content N/A
The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an “open standard” developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit hpdcollaborative.org.

CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level. Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.

GS: GreenScreen Benchmark; RC: Recycled Content, PC: Post Consumer, PI: Post Industrial (Pre-consumer), BO: Both; Nano: comprised of nanoscale particles or nanotechnology

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS RN</th>
<th>% weight</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
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<tbody>
<tr>
<td>Hazard A</td>
<td>Warning A</td>
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<td></td>
<td></td>
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<tr>
<td>Hazard B</td>
<td>Warning B</td>
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<tr>
<td>Hazard C</td>
<td>Warning C</td>
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<tr>
<td>Hazard D</td>
<td>Warning D</td>
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<td>Hazard E</td>
<td>Warning E</td>
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</tr>
</tbody>
</table>

Notes

IRON
7439-89-6
52.71 %
LT-U
BO
N
Closer body

None found
No warnings found on HPD Priority lists

Steel
12597-69-2
37.56 %
BO
N
Closer body

None found
No warnings found on HPD Priority lists

LUBRICATING OILS
74869-22-0
6.32 %
LT-1
N
N
Hydraulic fluid

PBT
DSL: Persistent, Bioaccumulative and inherently Toxic (PBiT) to humans

CANCER
EU CMR (1): Carcinogen Category 2 - Substances which should be regarded as if they are carcinogenic to man (also in EU R-Phrases, EU H-Statements, EU CMR (2))

MULTIPLE
SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant)

Hydraulic fluid used to regulate door closing speed. Users operating the door are not exposed to the oil, which is fully contained by the metal encasement of the closer. As such, the actual risks associated with the closer's installation and use in a building are minimal and the listed hazards can be deemed irrelevant to the end-user.

Aluminum Alloy (Mixture)
91728-14-2
2.73 %
BO
N
Closer body

None found
No warnings found on HPD Priority lists

Steel
12597-69-2
0.23 %
BO
N
Stainless steel screws

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<table>
<thead>
<tr>
<th>Acrylic Polymer</th>
<th>9063-87-0</th>
<th>0.2 - 0.57 %</th>
<th>N</th>
<th>N</th>
<th>Paint, primer</th>
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</thead>
</table>

None found

No warnings found on HPD Priority lists

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**EPICHLOROHYDRIN-BISPHENOL A RESIN**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>%</th>
<th>Certifier</th>
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<th>N</th>
<th>Primer</th>
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<tbody>
<tr>
<td>25068-38-6</td>
<td>0.05 - 0.1 %</td>
<td>LT-P1</td>
<td>N</td>
<td>N</td>
<td>Primer</td>
</tr>
</tbody>
</table>

**EYE IRRITATION**

EU R-Phrases: R36: Irritating to eyes. (also in EU H-Statements)

**SKIN IRRITATION**

EU R-Phrases: R38: Irritating to skin. (also in EU H-Statements)

**SKIN SENSITIZE**

EU R-Phrases: R43: May cause sensitization by skin contact.

**ACUTE AQUATIC**

EU R-Phrases: R51: Toxic to aquatic organisms.

**CHRON AQUATIC**

EU H-Statements: H411 - Aquatic Chronic 2 - Toxic to aquatic life with long lasting effects

**MULTIPLE**

VwVwS: Class 2 Hazard to Waters (also in EPA Action)

**DEVELOPMENTAL**

EPA Action: Developmental Effects

**REPRODUCTIVE**

EPA Action: Reproductive effects

Ingredient in the closer primer. The primer is covered with a coat of paint, thus reducing exposure and any risk associated with this material.

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**CERTIFICATIONS AND COMPLIANCE**

**Certifying Party** = First: Manufacturer’s self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

**Applicable facilities** = Manufacturing sites to which testing applies.

<table>
<thead>
<tr>
<th>Type</th>
<th>Standard or Certification</th>
<th>Certifier or Laboratory</th>
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</thead>
<tbody>
<tr>
<td><strong>VOC Emissions</strong></td>
<td>Not tested</td>
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</tr>
<tr>
<td><strong>VOC Content</strong></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Recycled Content</strong></td>
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</tbody>
</table>
ACCESSORY MATERIALS
This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products.
Note: This declaration is not intended to address hazards of the installation process.

<table>
<thead>
<tr>
<th>Required or Recommended Product</th>
<th>URL for Companion Health Product Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition when required or recommended and/or other notes</td>
<td></td>
</tr>
</tbody>
</table>

NOTES
This HPD represents intentional material ingredients present in DORMA's concealed closer at concentrations of 1,000 ppm or higher. Materials are identified by their CAS registry numbers and cross-referenced with priority hazard lists to identify the hazards (if any) associated with a particular material. As such, HPDs list potential hazards associated with materials in a product and thereby the product itself. This identification of hazards, however, does not equate to the identification of risk or exposure associated with the installation or use of this product. An accurate assessment of risks is suggested in order to better judge the likelihood problems will arise from flagged ingredients.