DORMA Surface Closers: 8600 and 8900 Series

**Product ID**
8600 and 8900 Series Surface 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

**Contact Name**
Paul Licata

**Title**
Director of Brand Marketing

**Phone**
800-523-8483

**Email**
archdw@dorma-usa.com

**Description**
DORMA’s 8600 and 8900 Series are non-handed surface applied door closers with adjustable spring power (size 1-6) and backcheck that controls opening motion during abusive or abrupt opening.

Supported by a full complement of optional arms, plates, and brackets, the door closers provide the flexibility needed to meet the demands of commercial and institutional applications, including ADA barrier-free accessibility requirements.

**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 1000 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 is expected to be minimal—if any—residuals present in the product at concentrations of 1,000 ppm or greater given that over 93% of the product is comprised of metals and hydraulic fluid. Although PVC accounts for 5% of product mass, any residuals such as unreacted monomer and catalysts are expected to be under the 1,000 ppm threshold. Other residuals predicted by the HBN Pharos tool also fall under the threshold as they stem from the remaining 2% of intentional content.

**Contents in Descending Order of Quantity**
Steel, Aluminum Alloy (Mixture), LUBRICATING OILS, POLYVINYL CHLORIDE (PVC), Steel, POLYETHYLENE, ZINC, POLYURETHANE, Acrylic Polymer, 2-Propenenitrile, polymer with 1,3-butadiene

**Hazards**
- PBT (Persistent Bioaccumulative Toxic)
- Cancer
- Gene Mutation
- Development
- Reproductive
- Endocrine
- Respiratory

**Highest concern GreenScreen score** - List Translator Benchmark 1
- Neurotoxicity
- Mammal
- Skin or Eye
- Aquatic toxicity
- Land toxicity
- Physical hazard
- Global warming
- Ozone depletion
- Multiple
- Unknown

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

**Does the product contain exempt VOCs?**
- Yes
- No

**Are there VOC-free tints available?**
- Yes
- No

**Notes**

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard A</td>
<td>Warning A</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Hazard B</td>
<td>Warning B</td>
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</tr>
<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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<tr>
<td>Hazard E</td>
<td>Warning E</td>
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</tr>
</tbody>
</table>

Notes

None found

No warnings found on HPD Priority lists

### LUBRICATING OILS

<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>
</tr>
</thead>
<tbody>
<tr>
<td>LUBRICATING OILS</td>
<td>74869-22-0</td>
<td>6.09 %</td>
<td>LT-1</td>
<td>N</td>
<td>N</td>
<td>Hydraulic fluid</td>
</tr>
<tr>
<td>PBT</td>
<td>DSL: Persistent, Bioaccumulative and inherently Toxic (PBiT) to humans</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>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))</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>SIN: Classified CMR (Carcinogen, Mutagen &amp;/or Reproductive Toxicant)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

### POLYVINYL CHLORIDE (PVC)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>POLYVINYL CHLORIDE (PVC)</td>
<td>9002-86-2</td>
<td>5.44 %</td>
<td>LT-U</td>
<td>N</td>
<td>N</td>
<td>Closer body</td>
</tr>
</tbody>
</table>

Closer component made from a commonly used plastic. Users operating the door are not exposed to the PVC component, 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.
<table>
<thead>
<tr>
<th>Material</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>Category</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>12597-69-2</td>
<td>4.16</td>
<td>BO N</td>
<td>Stainless steel screws</td>
</tr>
<tr>
<td>Stainless steel (304)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLYETHYLENE</td>
<td>9002-88-4</td>
<td>0.73</td>
<td>LT-U N N</td>
<td>Closer body</td>
</tr>
<tr>
<td>ZINC</td>
<td>7440-66-6</td>
<td>0.39</td>
<td>LT-P1 N N</td>
<td>Closer body</td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td></td>
<td></td>
<td></td>
<td>EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life (also in EU R-Phrases)</td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td></td>
<td></td>
<td></td>
<td>EU H-Statements: H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>FLAMMABLE</td>
<td></td>
<td></td>
<td></td>
<td>EU H-Statements: H250 Catches fire spontaneously if exposed to air</td>
</tr>
<tr>
<td>REACTIVE</td>
<td></td>
<td></td>
<td></td>
<td>EU H-Statements: H260 In contact with water releases flammable gases which may ignite spontaneously</td>
</tr>
<tr>
<td>RESPIRATORY</td>
<td></td>
<td></td>
<td></td>
<td>AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only</td>
</tr>
<tr>
<td>Die-cast closer components.</td>
<td></td>
<td></td>
<td></td>
<td>The hazards associated with zinc are dependent upon the form in which zinc is provided. As zinc is inert upon receipt by DORMA 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.</td>
</tr>
<tr>
<td>POLYURETHANE</td>
<td>6440-88-6</td>
<td>0.24</td>
<td>LT-U N N</td>
<td>Paint</td>
</tr>
<tr>
<td>Acrylic Polymer</td>
<td>9063-87-0</td>
<td>0.18</td>
<td>N N</td>
<td>Primer</td>
</tr>
<tr>
<td>2-Propenenitrile, polymer with 1,3-butadiene</td>
<td>9003-18-3</td>
<td>0.15</td>
<td>LT-U N N</td>
<td>O-rings</td>
</tr>
</tbody>
</table>

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Certifying Party</td>
<td>Issue Date</td>
<td>Expiry Date</td>
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<tr>
<td>Applicable Facilities</td>
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<tr>
<td>Notes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Emissions</td>
<td>Not tested</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>
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</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Condition when required or recommended and/or other notes

NOTES
This HPD represents intentional material ingredients present in DORMA's surface 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.