Surface Applied Door Closer TS 93
by dormakaba

CLASSIFICATION: 08 71 00 Door Hardware

PRODUCT DESCRIPTION: The TS 93 cam action door closer system provides a high-quality architectural solution for all project application requirements, featuring the dormakaba heart-shaped cam to ensure exceptional ease of opening. Rapidly decreasing opening force the TS 93 system’s unique cam technology sets it apart from conventional door closer systems. The resistance encountered when opening the door is instantly reduced, offering an easy opening action much appreciated by, in particular children and older people.

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
SURFACE APPLIED DOOR CLOSER TS 93 | STEEL NoGS IRON LT-P1 | END ALUMINUM LT-P1 RES END | PHY LUBRICATING OILS LT-1 CAN | PBT MUL ZINC LT-P1 AQU END | MUL PHY PLASTICS, E.G. GRANULATES, FORMED PARTS, FIBRES, FOILS, POLYMER RESINS, IN SOLID FORM, NOT DISPersed, INSOLUBLE IN WATER AND INDIFFERENT NoGS BRASS NoGS |

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

**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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### SURFACE APPLIED DOOR CLOSER TS 93

**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:**

<table>
<thead>
<tr>
<th>STEEL</th>
<th>12597-69-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 39.4700</td>
<td>NoGS</td>
</tr>
</tbody>
</table>

**HAZARDS:**
None Found  
No warnings found on HPD Priority lists

**SUBSTANCE NOTES:**
Grey cast iron

### IRON

**PRODUCT THRESHOLD:** 7439-89-6

<table>
<thead>
<tr>
<th>IRON</th>
<th>7439-89-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 39.0800</td>
<td>LT-P1</td>
</tr>
</tbody>
</table>

**HAZARDS:**
ENDOCRINE - Potential Endocrine Disruptors
Potential Endocrine Disruptor

**SUBSTANCE NOTES:** Grey cast iron

### ALUMINUM

<table>
<thead>
<tr>
<th>ALUMINUM</th>
<th>7429-90-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 16.3500</td>
<td>LT-P1</td>
</tr>
</tbody>
</table>

**HAZARDS:**
RESPIRATORY - Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE - Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE) - H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE) - H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE) - H261 - In contact with water releases flammable gases
**LUBRICATING OILS**

**ID:** 74869-22-0

**%:** 2.3200  
**GS:** LT-1  
**RC:** None  
**NANO:** No  
**ROLE:** Hydraulic fluid

**HAZARDS:**

**CANCER**  
EU - R-phrases  
R45 - May cause cancer

**PBT**  
EC - CEPA DSL  
Persistent, Bioaccumulative and inherently Toxic (PB/TH) to humans

**CANCER**  
EU - GHS (H-Statements)  
H350 - May cause cancer

**CANCER**  
EU - REACH Annex XVII CMRs  
Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

**MULTIPLE**  
ChemSec - Sin List  
CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

**CANCER**  
EU - Annex VI CMRs  
Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

**CANCER**  
Australia - GHS  
H350 - May cause cancer

**SUBSTANCE NOTES:** 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.

**ZINC**

**ID:** 7440-66-6

**%:** 1.7200  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Slide channel

**HAZARDS:**

**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

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

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

**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.
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 Ennepetal, Germany

### Environmental Product Declaration

- **ISSUE DATE:** 2013-04-12
- **EXPIRY DATE:** 2018-04-11
- **CERTIFIER OR LAB:** Institut Bauen und Umwelt e.V. (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
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 will be provided by your local dormakaba organisation upon request.

Section 6: References

MANUFACTURER INFORMATION

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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 Unspeci ed (insu cient data to benchmark)
LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insu cient 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
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

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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.