

HPD UNIQUE IDENTIFIER: 22216

CLASSIFICATION: 28 15 17.13 Panic Hardware Delayed Egress Devices

PRODUCT DESCRIPTION: The HES 1600 Series Electric Strike is a heavy duty, low profile solution for all brands of cylindrical or mortise locks with or without a deadbolt. Additional features include: - Tamper resistant design - Field selectable fail safe / fail secure configuration - Dual voltage 12 / 24 VDC / VAC - Non-handed design - Interchangeable faceplates and accessories - Field replaceable components - Fully finished faceplate, keeper, case and trim - Field adjustable integrated shim

**Section 1: Summary**

**Nested Method / Product Threshold**

**CONTENT INVENTORY**

<p><b>Inventory Reporting Format</b></p> <p><input checked="" type="radio"/> Nested Materials Method <input type="radio"/> Basic Method</p> <p><b>Threshold Disclosed Per</b></p> <p><input type="radio"/> Material <input checked="" type="radio"/> Product</p>	<p><b>Threshold level</b></p> <p><input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other</p>	<p><b>Residuals/Impurities</b></p> <p>Residuals/Impurities Considered in 5 of 5 Materials</p> <p><b>Explanation(s) provided for Residuals/Impurities?</b></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p><b>Characterized</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No <i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i></p> <p><b>Screened</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No <i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i></p> <p><b>Identified</b> <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No <i>All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.</i></p>
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**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**  
**ELECTRIC STRIKE BODY & COMPONENTS [ STEEL MANUFACTURE, CHEMICALS LT-UNK ] SC:ELECTRONICS:ELECTROMECHANICS [ SC:ELECTROMECHANICS Not Screened ]**  
**SC:ELECTRONICS:ELECTRONICS [ SC:ELECTRONIC WIRING Not Screened ] HARDWARE [ STEEL NoGS ] TERMINAL SOCKET [ TIN, ORGANIC LT-UNK ]**

Number of Greenscreen BM-4/BM3 contents ... 0  
 Contents highest concern GreenScreen Benchmark or List translator Score ... LT-UNK  
 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 product was screened to the 1000 ppm threshold

**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

**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: 2020-10-

02

PUBLISHED DATE: 2020-10-

07

EXPIRY DATE: 2023-10-02



## 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 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

### ELECTRIC STRIKE BODY & COMPONENTS %: 95.4760 - 96.2605

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Other: Not Set

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES:

### STEEL MANUFACTURE, CHEMICALS

ID: 65997-19-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-02

%: 99.1904 - 100.0000 GS: LT-UNK RC: None NANO: Unknown SUBSTANCE ROLE: Structure component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

### SC:ELECTRONICS:ELECTROMECHANICS %: 1.9234

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Electronic Component

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below 1000 ppm.

OTHER MATERIAL NOTES: SpecialConditionApplied:Electronics

### SC:ELECTROMECHANICS

ID: SC:Electronics

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-02

%: 100.0000 GS: Not Screened RC: None NANO: No SUBSTANCE ROLE: Electronic component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
	Hazard Screening not performed	

SUBSTANCE NOTES:

Version: SCElec/2018-02-23

Brief Description: Electromechanic motor assembly

Compliance: RoHS compliance

Takeback Program: Product qualifies for end of life recycling program

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Electronic Component

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES: SpecialConditionApplied:Electronics

**SC:ELECTRONIC WIRING**

ID: SC:Electronics

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-02

%: 100.0000	GS: Not Screened	RC: None	NANO: No	SUBSTANCE ROLE: Electronic component
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening not performed

## SUBSTANCE NOTES:

Version: SCElec/2018-02-23

Brief Description: Wires and connectors

Compliance: RoHS

Takeback Program: Product participates in product end of life recycling program

**HARDWARE**

%: 0.5915 - 0.6572

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Other: Not Set

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES:

**STEEL**

ID: 12597-69-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-02

%: 89.9408 - 99.9696	GS: NoGS	RC: None	NANO: Unknown	SUBSTANCE ROLE: Hardware
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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None found No warnings found on HPD Priority Hazard Lists

## SUBSTANCE NOTES:

**TERMINAL SOCKET**

%: 0.1603 - 0.1603

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Other: Not Set

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were considered and determined to be below the 1000 ppm threshold

OTHER MATERIAL NOTES:

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HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**    HAZARD SCREENING DATE: **2020-10-02**

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%: **99.8129 - 99.8129**                      GS: **LT-UNK**                      RC: **None**    NANO: **Unknown**    SUBSTANCE ROLE: **Hardware**

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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

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SUBSTANCE NOTES:

## 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.*

<b>VOC EMISSIONS</b>	<b>N/A</b>
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: All facilities CERTIFICATE URL:	ISSUE DATE: 2020-10-07 EXPIRY DATE: CERTIFIER OR LAB: Self-declared
CERTIFICATION AND COMPLIANCE NOTES: Inherently non-emitting source per LEED®	

<b>LCA</b>	<b>Environmental Product Declaration</b>
CERTIFYING PARTY: UL Environmental APPLICABLE FACILITIES: All facilities CERTIFICATE URL: <a href="https://spot.ul.com/main-app/products/detail/5ae352c155b0e812b4f0ed3d?page_type=Products%20Catalog">https://spot.ul.com/main-app/products/detail/5ae352c155b0e812b4f0ed3d?page_type=Products%20Catalog</a> CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2017-09-06 EXPIRY DATE: 2022-09-06 CERTIFIER OR LAB: Wade Stout

## 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

This Health Product Declaration was prepared by Sustainable Solutions Corporation of Royersford, PA on behalf of the ASSA ABLOY Electromechanical Specialties & OEM Group.

**MANUFACTURER INFORMATION**

**MANUFACTURER:** ASSA ABLOY  
**ADDRESS:** 110 Sargent Drive  
 New Haven Connecticut 06511, USA  
**WEBSITE:** <http://www.assaabloydds.com/sustainability>

**CONTACT NAME:** Amy Musanti  
**TITLE:** Director, Sustainable Building Solutions  
**PHONE:** (203) 603-5919  
**EMAIL:** amy.musanti@assaabloy.com

*The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.*

**KEY**

**Hazard Types**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<b>RES</b> Respiratory sensitization
<b>END</b> Endocrine activity	<b>NEU</b> Neurotoxicity	<b>SKI</b> Skin sensitization/irritation/corrosivity
<b>EYE</b> Eye irritation/corrosivity	<b>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-UNK</b> List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	
<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)	<b>NoGS</b> No GreenScreen.

**Recycled Types**

**PreC** Pre-consumer recycled content  
**PostC** Post-consumer recycled content  
**UNK** Inclusion of recycled content is unknown  
**None** Does not include recycled content

**Other Terms:**

**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**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.*