McKinney Door Hinge
by Assa Abloy

Health Product Declaration v2.1
created via: HPDC Online Builder

CLASSIFICATION: 08 71 00
PRODUCT DESCRIPTION: 5 Knuckle Full Mortise Bearing Hinge; Standard Weight; Steel; 4-1/2" x 4-1/2"; Meets or exceeds ANSI A156.1 Standard; Used on standard weight medium frequency doors; and Used on doors with closing devices

Section 1: Summary

Nested Method / Material Threshold

CONTENT INVENTORY

Inventory Reporting Format
- (•) Nested Materials Method
- ( ) Basic Method

Threshold Disclosed Per
- (•) Material
- ( ) Product

Threshold level
- ( ) 100 ppm
- (•) 1,000 ppm
- ( ) Per GHS SDS
- ( ) Per OSHA MSDS
- ( ) Other

Residuals/Impurities
Residuals/Impurities
Considered in 0 of 6 Materials

Explanation(s) provided for Residuals/Impurities?
- ( ) Yes
- (•) No

Are All Substances Above the Threshold Indicated:

Characterized — (•) Yes ( ) No
Percent Weight and Role Provided?

Screened — (•) Yes ( ) No
Using Priority Hazard Lists with Results Disclosed?

Identified — (•) Yes ( ) No
Name and Identifier Provided?

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

3 KNUCKLE LEAF [IRON LT-UNK CARBON LT-UNK MANGANESE LT-P1 | END] 2 KNUCKLE LEAF [IRON LT-UNK CARBON LT-UNK MANGANESE LT-P1 | END] STEEL [IRON LT-UNK MANGANESE LT-P1 | END NICKEL LT-1 | MAM | CAN | SKI | AQU | RES ZINC LT-P1 | AQU | RES | PHY] BEARING SHELL [IRON LT-UNK CARBON LT-UNK MANGANESE LT-P1 | END] DILUTED BRONZE BEARING [IRON LT-UNK COPPER LT-P1 COPPER LT-P1 1,2-BIS(OCTADECANAMIDO)ETHANE LT-UNK (C14-C18) AND(C16-C18) UNSATURATED ALKYLCARBOXYLIC ACID SODIUM SALT UNK MANGANOUS SULFIDE LT-UNK] GREASE [DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) HEAVY NAPHTHENIC (9CI) LT-1 | CAN | PBT | MUL LITHIUM 12-HYDROXYSTEARATE LT-UNK ZINC OXIDE LT-P1 | AQU | RES | MUL TITANIUM DIOXIDE LT-1 | CAN ZINC BIS(DIPENTYLDITHIOCARBAMATE) LT-P1 | MUL]

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:
Residuals not considered as impacts are not considered to be significant

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*
LCA: Environmental Product Declaration
Other: Declare Label

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?
- ( ) Yes
- (•) No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2016-12-01
PUBLISHED DATE: 2018-05-24
EXPIRY DATE: 2019-12-01

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

3 KNUCKLE LEAF

%: 40.4900 - 40.4900

HPD URL:

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER MATERIAL NOTES:

IRON

ID: 7439-89-6

%: **96.0000 - 96.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CARBON

ID: 7440-44-0

%: **1.5000 - 1.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MANGANESE

ID: 7439-96-5

%: **1.5000 - 1.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES:

2 KNUCKLE LEAF

%: 35.4700 - 35.4700

HPD URL:

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER MATERIAL NOTES:

IRON

ID: 7439-89-6

%: **96.0000 - 96.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CARBON

ID: 7440-44-0

%: **1.5000 - 1.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MANGANESE

ID: 7439-96-5

%: **1.5000 - 1.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES:

STEEL

%: 19.8000 - 19.8000 **HPD URL:**

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER MATERIAL NOTES: Plug; 34; Machine Screw, #12-24 x 1/2 FHUC; Screw, #12 x 1-1/4 FH

IRON

ID: 7439-89-6

%: **95.0000 - 95.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Iron**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: Structural Component

MANGANESE

ID: 7439-96-5

%: **2.0000 - 2.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Manganese**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: Structural Component

NICKEL

ID: 7440-02-0

%: **0.2000 - 0.2000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Nickel**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
SKIN IRRITATION	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: Structural Component

ZINC

ID: 7440-66-6

%: **0.1500 - 9.1000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Zinc**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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

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: Structural Component

BEARING SHELL

%: 1.3100 - 1.3100 **HPD URL:**

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER MATERIAL NOTES:

IRON

ID: 7439-89-6

%: **96.0000 - 96.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CARBON

ID: 7440-44-0

%: **1.5000 - 1.5000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MANGANESE

ID: 7439-96-5

%: **1.5000 - 1.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES:

DILUTED BRONZE BEARING

%: 0.9400 **HPD URL:**

MATERIAL THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER MATERIAL NOTES:

IRON

ID: 7439-89-6

%: **57.8500 - 60.4500** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

COPPER

ID: 7440-50-8

%: **35.0000 - 37.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

COPPER

ID: 7440-50-8

%: **35.0000 - 37.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Hinge Knuckle Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

1,2-BIS(OCTADECANAMIDO)ETHANE

ID: 110-30-5

%: 0.4000 - 0.6000 GS: LT-UNK RC: None NANO: No ROLE: Hinge Knuckle Component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

(C14-C18) AND(C16-C18) UNSATURATED ALKYLCARBOXYLIC ACID SODIUM SALT

ID: 67762-34-9

%: 0.2500 - 0.4500 GS: UNK RC: None NANO: No ROLE: Hinge Knuckle Component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MANGANOUS SULFIDE

ID: 18820-29-6

%: 0.0000 - 1.0000 GS: LT-UNK RC: None NANO: No ROLE: Hinge Knuckle Component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

GREASE

%: 0.2800 - 0.2800 HPD URL:

MATERIAL THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES:

OTHER MATERIAL NOTES:

DISTILLATES (PETROLEUM), SOLVENT-REFINED (MILD) HEAVY NAPHTHENIC (9CI)

ID: 64741-96-4

%: 85.0000 - 95.0000 GS: LT-1 RC: None NANO: No ROLE: Bearing Component

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	EU - R-phrases	R45 - May cause cancer
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) 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

SUBSTANCE NOTES:

LITHIUM 12-HYDROXYSTEARATE

ID: 7620-77-1

%: 2.0000 - 7.0000 GS: LT-UNK RC: None NANO: No ROLE: Bearing Component

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ZINC OXIDE

ID: 1314-13-2

%: 1.0000 - 2.0000 GS: LT-P1 RC: None NANO: No ROLE: Bearing Component

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

%: **0.5000 - 1.5000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Bearing Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen (airborne particles of respirable size - occupational setting)
CANCER	IARC	Group 2b: Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES:

ZINC BIS(DIPENTYLDITHIOCARBAMATE)

ID: 15337-18-5

%: **0.0000 - 0.2000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Bearing Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

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.

LCA | **Environmental Prod Declaration**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: NA
CERTIFICATE URL:
http://www.assaabloydss.com/Local/DSS/Sustainability/EPD/Mutual%20Listings/Locks%20and%20Hardware/112.1_ASSA%20ABLOY_mrEPD_McKinney%20Hinges_20150417.pdf

ISSUE DATE: 2015-04-10 | EXPIRY DATE: | CERT OR L ULI

CERTIFICATION AND COMPLIANCE NOTES:

OTHER | **Declare Label**

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: NA
CERTIFICATE URL:
http://www.assaabloydss.com/Local/DSS/Sustainability/Declare/Declare%20Labels/MCKINNEY%20DOOR%20HINGE.jpg

ISSUE DATE: 2015-09-01 | EXPIRY DATE: 2016-09-01 | CERTIFIER OR LAB: ILFI

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

Residuals not considered as impacts are not considered to be significant

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Assa Abloy**
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WEBSITE: **www.assaabloydss.com/sustainability**

CONTACT NAME: **Amy Vigneux**
TITLE: **Manager- Sustainable Building Solutions**
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EMAIL: **amy.vigneux@assaabloy.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 Unspecified (insuficient 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)
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
None Does not include recycled content

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

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.