

CLASSIFICATION: 08 71 00

PRODUCT DESCRIPTION: The L400 Series locks are designed for use as primary locks where no latching is required, such as restrooms and small doors to utility spaces. They also offer optimum security when used as auxiliary locks in other applications. Products included in this HPD are L460, L462, L463, L464, L480.

Section 1: Summary

Basic Method / Product 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

- Considered
 Partially Considered
 Not Considered

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

SCHLAGE L400 SERIES [**IRON** LT-P1 | END **COPPER** LT-UNK **ZINC** LT-P1 | AQU | END | MUL | PHY **MANGANESE** LT-P1 | END | MUL | REP **SILICON** LT-UNK **NICKEL** LT-1 | CAN | RES | SKI | MAM | MUL **CARBON** LT-UNK **CHROMIUM** LT-P1 | RES | END | SKI **COBALT(II) SULFATE** LT-1 | RES | CAN | REP | AQU | SKI | GEN | MUL **CHROMIUM (III), INSOLUBLE SALTS** LT-P1 | END | SKI **DISTILLATE FUEL OILS, LIGHT** BM-2 | MAM | CAN **TIN** LT-P1 **CHROMIUM OXIDE** LT-P1 | SKI | CAN **ALUMINUM** LT-P1 | RES | END | PHY]

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:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*
No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:
VERIFICATION #:

SCREENING DATE: 2018-04-23

PUBLISHED DATE: 2018-04-26

EXPIRY DATE: 2021-04-23



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

SCHLAGE L400 SERIES

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were collected for all raw materials included in this product. Allchemicals that fall above the stated threshold are included in this section.

OTHER PRODUCT NOTES:

IRON

ID: 7439-89-6

%: 94.0000 - 95.0000	GS: LT-P1	RC: None	NANO: No	ROLE: Metal Alloy
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to the customer.

COPPER

ID: 7440-50-8

%: 3.5000 - 4.0000	GS: LT-UNK	RC: UNK	NANO: No	ROLE: Metal Alloy
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

ZINC

ID: 7440-66-6

%: 1.5000 - 1.7500	GS: LT-P1	RC: UNK	NANO: No	ROLE: Part Finish and Metal Alloy
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

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: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

MANGANESE

ID: 7439-96-5

#: **0.2500 - 0.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Metal Alloy**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

SILICON

ID: 7440-21-3

#: **0.0200 - 0.0300** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Part Finish**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: Range due to possible variations in application rate.

NICKEL

ID: 7440-02-0

#: **0.0200 - 0.0500** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Metal Alloy**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

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 SENSITIZE	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
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

CARBON

ID: 7440-44-0

#: 0.0000 - 0.1500 GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Metal Alloy**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

CHROMIUM

ID: 7440-47-3

#: 0.0000 - 0.0500 GS: **LT-P1** RC: **UNK** NANO: **No** ROLE: **Metal Alloy**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
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SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
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SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

COBALT(II) SULFATE

ID: 10124-43-3

#: 0.0000 - 0.1500

GS: LT-1

RC: None

NANO: No

ROLE: Part Finish

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CANCER	EU - SVHC Authorisation List	Carcinogenic - Prioritized for listing
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Prioritized for listing
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life M = 10
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H341 - Suspected of causing genetic defects
CANCER	EU - GHS (H-Statements)	H350i - May cause cancer by inhalation
REPRODUCTIVE	EU - GHS (H-Statements)	H360F - May damage fertility
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 2 - Substances which should be regarded as if they impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
CANCER	Australia - GHS	H350 - May cause cancer
REPRODUCTIVE	Australia - GHS	H360F - May damage fertility

SUBSTANCE NOTES: Range due to possible variations in application rate.

CHROMIUM (III), INSOLUBLE SALTS

ID: 16065-83-1

#: 0.0000 - 0.1000

GS: LT-P1

RC: None

NANO: No

ROLE: Part Finish

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: Range due to possible variations in application rate.

DISTILLATE FUEL OILS, LIGHT

ID: 64742-47-8

#: 0.0000 - 0.0200 GS: BM-2 RC: None NANO: No ROLE: Part Finish

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MAMMALIAN	EU - GHS (H-Statements)	H304 - May be fatal if swallowed and enters airways
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: Range due to possible variations in application rate.

TIN

ID: 7440-31-5

#: 0.0000 - 0.0100 GS: LT-P1 RC: None NANO: No ROLE: Metal Alloy

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

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

CHROMIUM OXIDE

ID: 11118-57-3

#: 0.0000 - 0.0500 GS: LT-P1 RC: None NANO: No ROLE: Metal Alloy

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN SENSITIZE	MAK	Sensitizing Substance Sh - Danger of skin sensitization
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

ALUMINUM

ID: 7429-90-5

#: 0.0000 - 0.1000 GS: LT-P1 RC: UNK NANO: No ROLE: Metal Alloy

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Range due to possible variations in alloy. Due to the commodity nature of steel, the status of recycled content is unknown. Range due to possible variations in alloy and different functions available to customer.

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.

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 HPD covers the following products: L460, L462, L463, L464, L480. These variations are due to minor differences in parts, and/or configurations of those parts, which result in slightly different deadbolt functions. These minor differences were evaluated for this HPD.



MANUFACTURER INFORMATION

MANUFACTURER: **Allegion**

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Colorado Springs CO 80911, USA

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CONTACT NAME: **Tim Weller**

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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 (insufficient 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.