

HPD UNIQUE IDENTIFIER: 24601

CLASSIFICATION: 22 42 39 Commercial Faucets

PRODUCT DESCRIPTION: Sensor-activated faucets are designed to deliver a preset volume of water into a lavatory. Sloan's line of Optima® faucets are ideal for applications that require a reliable sensor activated faucet and efficient water savings.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i>
<input type="radio"/> Nested Materials Method	<input type="radio"/> 100 ppm	<input checked="" type="radio"/> Considered	Characterized <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No
<input checked="" type="radio"/> Basic Method	<input checked="" type="radio"/> 1,000 ppm	<input type="radio"/> Partially Considered	<i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i>
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	<input type="radio"/> Not Considered	Screened <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other	Explanation(s) provided for Residuals/Impurities?	<i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i>
<input checked="" type="radio"/> Product		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No
			<i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i>

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
OPTIMA EAF (1XX, 2XX, 3XX, 7XX) [UNS C38500 COPPER ALLOY NoGS CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK STEEL NoGS COPPER LT-P1 | AQU | MUL UNS S30300 STAINLESS STEEL ALLOY NoGS 1,3-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 1,6-HEXANEDIAMINE AND HEXANEDIOIC ACID NoGS SC:SENSOR Not Screened 2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE LT-UNK UNS S43020 STAINLESS STEEL NoGS CARBON BLACK BM-1 | CAN UNS S30400 STAINLESS STEEL ALLOY NoGS RUBBER, SYNTHETIC EPDM NoGS POLYPROPYLENE LT-UNK POLICAPRAM LT-UNK UNS C85700 COPPER ALLOY NoGS MANGANESE DIOXIDE LT-P1 UNS Z35531 ZINC ALLOY LT-P1 | AQU | END | MUL | PHY LITHIUM LT-P1 | SKI | MUL | REP | PHY UNS Z33520 ZINC ALLOY NoGS BRASS NoGS 1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE LT-UNK DELRIN NoGS UNS C87850 COPPER ALLOY NoGS PROPYLENE CARBONATE LT-UNK | EYE 1,2-DIMETHOXYETHANE LT-1 | REP | MUL | PHY ABS RESIN LT-UNK UNS C38000 COPPER ALLOY NoGS UNS C12200 COPPER ALLOY NoGS UNS Z35531 ZINC ALLOY LT-P1 | AQU | END | MUL | PHY UNS C44500 COPPER ALLOY NoGS UNS C27453 COPPER ALLOY NoGS]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

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.

All the chemicals that fall above the stated threshold are included and screened against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. Ten types of metal alloys use their UNS numbers for identification. Their CAS registry numbers are respectively provided in their substance notes.

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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Not Applicable

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER: WAP Sustainability Consulting

VERIFICATION #: zPr-6443

SCREENING DATE: 2021-04-21

PUBLISHED DATE: 2021-05-03

EXPIRY DATE: 2024-04-21

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

OPTIMA EAF (1XX, 2XX, 3XX, 7XX)

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Information on residuals and impurities was collected for all raw materials included in this product from suppliers. All the chemicals that fall above the stated threshold are included in this section. Ten types of metal alloys use their UNS numbers for identification. Their CAS registry numbers are respectively provided in their substance notes.

OTHER PRODUCT NOTES:

UNS C38500 COPPER ALLOY

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-21 9:20:35

#: 5.0000 - 35.0000 GS: NoGS RC: UNK NANO: No SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-21 9:20:35

#: 1.0000 - 5.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

STEEL

ID: 12597-69-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-21 9:20:36

#: 1.0000 - 5.0000 GS: NoGS RC: UNK NANO: No SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: Due to the commodity nature of steel, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:36**%: **1.0000 - 5.0000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Conductor**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H411 - Toxic to aquatic life with long lasting effects
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: Due to the commodity nature of copper, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product.

UNS S30300 STAINLESS STEEL ALLOY

ID: 12597-68-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:37**%: **1.0000 - 5.0000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Due to the commodity nature of stainless steel, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product.

1,3-BENZENEDICARBOXYLIC ACID, POLYMER WITH 1,4-BENZENEDICARBOXYLIC ACID, 1,6-HEXANEDIAMINE AND HEXANEDIOIC ACID

ID: 27135-32-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:37**%: **1.0000 - 10.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

SC:SENSORID: **SC:Electronics**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**%: **1.0000 - 10.0000** 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: No Entry
 Compliance: RoHS Compliant
 Takeback Program: N/A A range in mass percentage is given to account for the variations of the product.

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE

ID: 9005-98-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:38	
%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: No SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.			

UNS S43020 STAINLESS STEEL ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:38	
%: 0.1000 - 1.0000	GS: NoGS	RC: UNK	NANO: No SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Due to the commodity nature of stainless steel, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its CAS registry number is 12597-68-1.			

CARBON BLACK ID: **1333-86-4**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:39	
%: 0.1000 - 1.0000	GS: BM-1	RC: None	NANO: No SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen	
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification	
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route	
CAN	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources	
SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.			

UNS S30400 STAINLESS STEEL ALLOY ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:39	
%: 0.1000 - 2.5000	GS: NoGS	RC: UNK	NANO: No SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Due to the commodity nature of stainless steel, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its CAS registry number is 12597-68-1.			

RUBBER, SYNTHETIC EPDM ID: **308064-28-0**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:40	
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GS: NoGS

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

POLYPROPYLENE

ID: 9003-07-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-16 6:50:50

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

POLICAPRAM

ID: 25038-54-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-16 6:51:19

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Polymer species

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

UNS C85700 COPPER ALLOY

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-21 9:20:44

GS: NoGS

RC: UNK

NANO: No

SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.

MANGANESE DIOXIDE

ID: 1313-13-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-04-16 6:49:19

GS: LT-P1

RC: None

NANO: No

SUBSTANCE ROLE: Oxidizing agent

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-16 7:04:34**

#: **0.0000 - 2.5000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHY	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Due to the commodity nature of zinc alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 7440-66-6. The alloy only pertains to certain product series.

LITHIUM

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-16 6:48:25**

#: **0.0000 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Reducing agent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
SKI	EU - GHS (H-Statements)	H314 - Causes severe skin burns and eye damage
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
REP	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
PHY	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

UNS Z33520 ZINC ALLOY

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:42**

#: **0.0000 - 60.0000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Due to the commodity nature of zinc alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 7440-66-6. The alloy only pertains to certain product series.

BRASS

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-16 6:44:55	
%: 0.0000 - 2.5000	GS: NoGS	RC: UNK	NANO: No SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product.			

1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE		ID: 24969-26-4	
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:44	
%: 0.0000 - 2.5000	GS: LT-UNK	RC: None	NANO: No SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.			

DELTRIN		ID: 66455-31-0	
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:44	
%: 0.0000 - 2.5000	GS: NoGS	RC: None	NANO: No SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.			

UNS C87850 COPPER ALLOY		ID: Not registered	
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:45	
%: 0.0000 - 5.0000	GS: NoGS	RC: UNK	NANO: No SUBSTANCE ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.			

PROPYLENE CARBONATE		ID: 108-32-7	
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-04-21 9:20:45	
%: 0.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No SUBSTANCE ROLE: Solvent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation	
SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.			

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:46**%: **0.0000 - 5.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Solvent**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
REP	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
REP	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
REP	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
REP	GHS - New Zealand	6.8A - Known or presumed human reproductive or developmental toxicants
REP	GHS - Japan	Toxic to reproduction - Category 1B [H360]
REP	GHS - Korea	Category 1(1B) [H360 - May damage fertility or the unborn child]
REP	GHS - Australia	H360FD - May damage fertility. May damage the unborn child
PHY	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

ABS RESIN

ID: 9003-56-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:46**%: **0.0000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

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

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product.

UNS C38000 COPPER ALLOYID: **Not registered**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:47**%: **0.0000 - 10.0000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.

UNS C12200 COPPER ALLOYID: **Not registered**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:47**%: **0.0000 - 10.0000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.

UNS Z35531 ZINC ALLOYID: **7440-66-6**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:48**%: **0.0000 - 15.0000** GS: **LT-P1** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHY	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously

SUBSTANCE NOTES: Due to the commodity nature of zinc alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 7440-66-6. The alloy only pertains to certain product series.

UNS C44500 COPPER ALLOYID: **Not registered**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:48**%: **0.0000 - 20.0000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.

UNS C27453 COPPER ALLOYID: **Not registered**HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-04-21 9:20:49**%: **0.0000 - 35.0000** GS: **NoGS** RC: **UNK** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Due to the commodity nature of copper alloy, the status of recycled content is unknown. A range in mass percentage is given to account for the variations of the product. This metal alloy is identified by its UNS number and its general CAS registry number is 12597-71-6. The alloy only pertains to certain product series.

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.

VOC EMISSIONS

CDPH Standard Method V1.2 (Section 01350/CHPS) - Not Applicable

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2021-04-

EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: All

16

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: No Emission Testing Available.

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.

HOSE ASSEMBLY

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Hose required to connect water supply to faucets.

Section 5: General Notes

The Optima EAF faucets that are bracketed into this HPD include EAF-100, EAF-150, EAF-200, EAF-225, EAF-250, EAF-275, EAF-350, EAF-700, and EAF-750.

MANUFACTURER INFORMATION

MANUFACTURER: Sloan Valve Company
ADDRESS: Sloan Valve Company
 Franklin Park IL 60131, USA
WEBSITE: www.sloan.com

CONTACT NAME: Patrick Boyle
TITLE: Director, Corporate Sustainability
PHONE: 847-233-2082
EMAIL: patrick.boyle@sloan.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

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK 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.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	

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.