

CLASSIFICATION: 22 41 36 Residential Faucet; 22 42 39 Commercial Faucet

PRODUCT DESCRIPTION: The Optima® EBF 650 and Optima® EBF 655 are Battery-Powered Deck-Mounted Low Integrated Base Body Faucets with 0.35 gpm/1.3 Lpm or 0.5 gpm/1.9 Lpm flow rates. Optima® ETF 600 sensor faucets are Hardwired-Powered Deck-Mounted Low Integrated Base Body Faucets with 0.35 gpm/1.3 Lpm or 0.5 gpm/1.9 Lpm flow rates. These sensor faucets feature a cast brass spout, quick connect fittings and integrated water shut-off.

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

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role provided for all substances except SC substances characterized according to SC guidance.

Screened Yes Ex/SC Yes No

All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.

Identified Yes Ex/SC Yes No

All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.

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 EBF (650, ETF 600, 655) [COPPER LT-UNK BRASS NoGS ZINC LT-P1 | AQU | PHY | END | MUL SC:SENSOR WINDOW AND CONTROL MODULE Not Screened ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER LT-UNK 1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE LT-UNK STEEL MANUFACTURE, CHEMICALS LT-UNK IRON LT-P1 | END ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM) LT-UNK POLYPROPYLENE LT-UNK 2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE LT-UNK NEOPRENE RUBBER LT-UNK CHROMIUM LT-P1 | RES | END | SKI CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK HEXADECANOIC ACID, ZINC SALT LT-UNK NICKEL LT-1 | RES | CAN | SKI | MAM | MUL POLYETHYLENE LT-UNK 6005 ALUMINUM LT-P1 | RES | PHY | END BISMUTH LT-UNK CARBON BLACK LT-1 | CAN KAOLIN CLAY LT-UNK | CAN RESIDUAL OILS, PETROLEUM, HYDROTREATED LT-1 | PBT | CAN | MUL LEAD LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN TETRABROMOBISPHENOL A (TBBPA) BM-1 | CAN | PBT | END | AQU | MUL | REP ANTIMONY TRIOXIDE BM-1 | CAN | MUL]

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.

The Sloan team worked with an HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 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: CDPH Standard V1.2 (Section 01350/CHPS) Not Applicable
Other: Environmental Product Declaration (EPD) by SCS

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

Yes

No

PREPARER: **ToxServices LLC**
VERIFIER: **SCS Global Services**
VERIFICATION #: **qGE-6444**

SCREENING DATE: **2019-04-18**
PUBLISHED DATE: **2019-06-28**
EXPIRY DATE: **2022-04-18**



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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

OPTIMA EBF (650, ETF 600, 655)

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Sloan worked with an HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

OTHER PRODUCT NOTES:

COPPER

ID: 7440-50-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-18

#: 34.38 - 35.41

GS: LT-UNK

RC: None

NANO: No

ROLE: Spray Head; Solenoid; Spring; Connector Rod and Compression Nut Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

BRASS

ID: 12597-71-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-18

#: 28.47 - 28.47

GS: NoGS

RC: None

NANO: No

ROLE: Faucet Body Centerset and Nipple Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

ZINC

ID: 7440-66-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-18

#: 21.80 - 22.70

GS: LT-P1

RC: None

NANO: No

ROLE: Spray Head; Solenoid; Connector Tube; Body; Compression Nut; Nipple and Centerset Component

HAZARD TYPE	AGENCY AND LIST TITLES	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
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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

SC:SENSOR WINDOW AND CONTROL MODULE

ID: **SC:Electronics**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-18		
%: 8.22 - 8.22	GS: Not Screened	RC: None	NANO: No	ROLE: Control Unit and Sensor Window
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
Hazard Screening not performed				

SUBSTANCE NOTES:

Version: SCElec/2018-02-23

Brief Description: Covers electrical components control module ASM and Sensor Window Housing ASM

Compliance: No Entry

Takeback Program: No Entry

This substance was properly screened by the HPD Approved Preparer.

ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER

ID: **9003-56-9**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-18		
%: 5.75 - 8.83	GS: LT-UNK	RC: None	NANO: No	ROLE: SSplash Proof Enclosure Base and Cover Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE

ID: **24969-26-4**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-18		
---	--	--	--	--

%: 4.98 - 4.98

GS: LT-UNK

RC: None

NANO: No

ROLE: Diaphragm Housing; Back up Ring; Diaphragm Attenuator and Diaphragm Plate Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

STEEL MANUFACTURE, CHEMICALS

ID: 65997-19-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-18

%: 4.49 - 4.49

GS: LT-UNK

RC: None

NANO: No

ROLE: Spray Head; Solenoid and Screw Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

IRON

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-18

%: 3.21 - 3.21

GS: LT-P1

RC: None

NANO: No

ROLE: Solenoid; Washer; Wing Nut; Body. Bracket Sensor Mount and Compression Nut;

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-04-18

%: 3.10 - 3.24

GS: LT-UNK

RC: None

NANO: No

ROLE: O-Ring; Solenoid; Diaphragm and Trim Plate Component

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

POLYPROPYLENE

ID: 9003-07-0

%: **1.88 - 1.88** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Valve Body Solenoid Component**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENEID: **9003-18-3**%: **1.17 - 1.17** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Anti-Rotation Boot Component**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

NEOPRENE RUBBERID: **69028-37-1**%: **0.70 - 0.70** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Splash Proof Gasket Component**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CHROMIUMID: **7440-47-3**%: **0.65 - 0.76** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Solenoid; Spring; Bracket Sensor; Mounting and Hex Nut Component**

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-04-18**%: **0.47 - 0.47**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Valve Body Solenoid Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found**No warnings found on HPD Priority Hazard Lists**SUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****HEXADECANOIC ACID, ZINC SALT**

ID: 4991-47-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-04-18**%: **0.42 - 0.42**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Splash Proof Enclosure Gasket Component**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found**No warnings found on HPD Priority Hazard Lists**SUBSTANCE NOTES: **This substance was properly screened by the HPD Approved Preparer.****NICKEL**

ID: 7440-02-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2019-04-18**%: **0.34 - 0.71**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Solenoid; Connector Tube; Body and Compression Nut Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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	Known to be a human Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
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 was properly screened by the HPD Approved Preparer.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-18**

#: **0.28 - 0.28** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Screw and Splash Proof Enclosure Component**

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

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

6005 ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-18**

#: **0.27 - 0.27** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Centerset Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
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
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

BISMUTH

ID: 7440-69-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-04-18**

#: **0.23 - 0.23** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Centerset Component**

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

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-04-18**

#: **0.09 - 0.21** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Diaphragm Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

KAOLIN CLAY

ID: 1332-58-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2019-04-18**

#: **0.07 - 0.14** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Diaphragm Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

RESIDUAL OILS, PETROLEUM, HYDROTREATED

ID: 64742-57-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-18		
%: 0.04 - 0.11	GS: LT-1	RC: None	NANO: No	ROLE: Diaphragm Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
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		
CANCER	Australia - GHS	H350 - May cause cancer		

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

LEAD

ID: 7439-92-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2019-04-18		
%: 0.02 - 0.41	GS: LT-1	RC: None	NANO: No	ROLE: Spray Head; Solenoid; Connector Tube and Compression Nut Component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
DEVELOPMENTAL	G&L - Neurotoxic Chemicals	Developmental Neurotoxicant		
CANCER	US EPA - IRIS Carcinogens	(1986) Group B2 - Probable human Carcinogen		
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans		
CANCER	IARC	Group 2b - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity		
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT		
PBT	WA DoE - PBT	PBT		

REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer.

TETRABROMOBISPHENOL A (TBBPA)

ID: 79-94-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-18**

%: **0.00 - 1.49**

GS: **BM-1**

RC:
None

NANO:
No

ROLE: **Splash Proof Enclosure Base and Cover Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2a - Agent is probably Carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
PBT	WA DoE - PBT	PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
ENDOCRINE	OSPAR - Priority PBTs & EDs & equivalent concern	Endocrine Disruptor - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
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	ChemSec - SIN List	Endocrine Disruption
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PBT	EHP - San Antonio Statement on BFRs & CFRs	Flame retardant substance class of concern for PB&T & long range transport
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1B

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of B-1 was provided through the HPD 2.1 Builder Tool.

ANTIMONY TRIOXIDE

ID: 1309-64-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-04-18**

%: **0.00 - 0.44** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Splash Proof Enclosure Base and Cover Component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Japan - GHS	Carcinogenicity - Category 1B

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of BM-1 was provided through the HPD 2.1 Builder Tool.

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 V1.2 (Section 01350/CHPS) Not Applicable

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

05-20

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **No Emission Testing Available.**

OTHER

Environmental Product Declaration (EPD) by SCS

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2018-**

EXPIRY DATE: **2023-**

CERTIFIER OR LAB: **SCS**

APPLICABLE FACILITIES: **All Facilities**

10-24

10-23

Global

CERTIFICATE URL:

https://www.scs-certified.com/products/cert_pdfs/SCS-EPD-05196_Sloan_Optima-EBF_102418.pdf

CERTIFICATION AND COMPLIANCE NOTES: **SCS-EPD-05196; Part A: LCA Calculation Rules and Report Requirements v2018; Sustainable Minds (March 2018); Part B: Product Group Definition | Public Lavatory Faucets; Sustainable Minds (July 3, 2018).**

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.

EB V9 BATTERY "AA" SIZE

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Battery required to operate sensor in faucet

Section 5: General Notes

The Sloan team worked with an HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold. The Special Condition: Electronics, was used for the substance entry for the Sensor Window and Control Module Components. Information on this Special Condition can be found at https://www.hpd-collaborative.org/wp-content/uploads/2018/07/SpecialCondition_Electronics.pdf



MANUFACTURER INFORMATION

MANUFACTURER: **Sloan Valve Company**
 ADDRESS: **10500 Seymour Avenue**
Franklin Park IL 60131, USA
 WEBSITE: **https://www.sloan.com/commercial-bathroom-products/faucets**

CONTACT NAME: **Patrick Boyle**
 TITLE: **Director, Corporate Sustainability**
 PHONE: **847.233.2082**
 EMAIL: **Patrick.Boyle@sloan.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	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

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.