

HPD UNIQUE IDENTIFIER: 23101

CLASSIFICATION: 22 42 43 Flushometers

PRODUCT DESCRIPTION: The ECOS, SOLIS, and G2 are all top-mounted, battery-operated sensor flushometers with the following features: ECOS ■ Automatically activates by means of an infrared sensor with multi-focused lobular sensing fields ■ Automatically initiates a 1.1 gpf or 1.6 gpf flush based on how long use remains in sensor range ■ Buttons on top of the flush valve enable manual flushing with a standard or reduced flush at restroom visitor's discretion ■ Fixed metering bypass and no external volume adjustment to ensure water conservation; G2 ■ Automatically operates by means of an infrared sensor with multiple-focused lobular sensing fields for high and low target detection ■ User friendly, three-second flush delay and Courtesy Flush® override button ■ Adjustable tailpiece ■ Available in high efficiency (1.28 gpf/4.8 Lpf) models; and SOLIS ■ Automatically operates by means of an infrared sensor with multiple-focused lobular sensing fields for high and low target detection ■ User friendly, three-second flush delay and Courtesy Flush® override button ■ Adjustable tailpiece ■ Available in high efficiency (1.28 gpf/4.8 Lpf) and (1.1 gpf/4.2 Lpf) models.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<p>Inventory Reporting Format</p> <p><input type="radio"/> Nested Materials Method</p> <p><input checked="" type="radio"/> Basic Method</p> <p>Threshold Disclosed Per</p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p>Threshold level</p> <p><input type="radio"/> 100 ppm</p> <p><input checked="" type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p>Residuals/Impurities</p> <p><input checked="" type="radio"/> Considered</p> <p><input type="radio"/> Partially Considered</p> <p><input type="radio"/> Not Considered</p> <p>Explanation(s) provided for Residuals/Impurities?</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>All Substances Above the Threshold Indicated Are:</i></p> <p>Characterized <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</p> <p><i>% weight and role provided for all substances except SC substances characterized according to SC guidance.</i></p> <p>Screened <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No</p> <p><i>All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance.</i></p> <p>Identified <input type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p><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></p>
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CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

SOLIS, ECOS & G2 BATTERY SENSOR FLUSHOMETERS [BRASS NoGS UNS Z33520 ZINC ALLOY NoGS SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED BM-2 SC:PRINTED CIRCUIT BOARD Not Screened CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL] LT-UNK CARBON BLACK BM-1 | CAN SODA-LIME SILICATE GLASS NoGS SILICON DIOXIDE BM-1 | CAN 4,7-METHANO-1H-INDENE, 3A,4,7,7A-TETRAHYDRO-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK C13-15 ALKANE LT-1 | CAN | MUL 1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE LT-UNK PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 1,1'-SULFONYLBIS(4-CHLOROENZENE) LT-UNK ETHYLTRICETOXSILANE LT-P1 METHYLSILANETRIOL TRIACETATE LT-UNK DIMETHICONE (ALTERNATE CASRN IS 9006-65-9) LT-P1 | PBT POLYETHYLENE LT-UNK 1,1-DIETHOXYETHANE LT-P1 | PHY | SKI | EYE | MUL UNS S30400 STAINLESS STEEL ALLOY NoGS BICYCLO(2.2.1)HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK ABS RESIN LT-UNK CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES LT-1 | CAN | MUL UNS S43000 STAINLESS STEEL ALLOY NoGS STAINLESS STEEL

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®. Four 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

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: Self-Prepared

VERIFIER: WAP Sustainability Consulting

VERIFICATION #: zPr-11082

SCREENING DATE: 2020-10-06

PUBLISHED DATE: 2020-12-07

EXPIRY DATE: 2023-10-06

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

SOLIS, ECOS & G2 BATTERY SENSOR FLUSHOMETERS

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.

OTHER PRODUCT NOTES:

BRASS

ID: 12597-71-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-06

#: 65.0000 - 75.0000 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.

UNS Z33520 ZINC ALLOY

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-06

#: 7.0000 - 12.0000 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 CAS registry number is 7440-66-6.

SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED

ID: 70131-67-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-06

#: 5.0000 - 15.0000 GS: BM-2 RC: None NANO: No SUBSTANCE ROLE: Adhesive

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 and to protect the proprietary nature of the formulation.

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **1.0000 - 2.0000** 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: Product control

Compliance: RoHS compliant

Takeback Program: No

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

CARBONIC DICHLORIDE, POLYMER WITH 4,4'-(1-METHYLETHYLIDENE)BIS[PHENOL]

ID: 25971-63-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **1.0000 - 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 and to protect the proprietary nature of the formulation.

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 5.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

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: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation. This substance also functions as filler in the EPDM compounds.

SODA-LIME SILICATE GLASS

ID: 2446523-50-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 2.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Glass 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.

SILICON DIOXIDE

ID: 7631-86-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06		
#: 0.1000 - 5.0000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
CANCER	GHS - Japan	Carcinogenicity - Category 1A [H350]		
CANCER	GHS - Australia	H350i - May cause cancer by inhalation		

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation.

4,7-METHANO-1H-INDENE, 3A,4,7,7A-TETRAHYDRO-, POLYMER WITH ETHENE AND 1-PROPENE

ID: 25034-71-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06		
#: 0.1000 - 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 and to protect the proprietary nature of the formulation.

C13-15 ALKANE

ID: 64742-46-7

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06		
#: 0.1000 - 5.0000	GS: LT-1	RC: None	NANO: No	SUBSTANCE ROLE: Solvent
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
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		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence		
CANCER	GHS - Australia	H350 - May cause cancer		

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation.

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

ID: 24969-26-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 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 and to protect the proprietary nature of the formulation.

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 1,1'-SULFONYLBIS(4-CHLOROBENZENE)

ID: 25154-01-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 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 and to protect the proprietary nature of the formulation.

ETHYLTRIACETOXSILANE

ID: 17689-77-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 2.5000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Water resistance**

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 and to protect the proprietary nature of the formulation.

METHYLSILANETRIOL TRIACETATE

ID: 4253-34-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 2.5000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Water resistance**

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 and to protect the proprietary nature of the formulation.

DIMETHICONE (ALTERNATE CASRN IS 9006-65-9)

ID: 63148-62-9

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**%: **0.1000 - 2.5000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Surfactant**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**

#: **0.1000 - 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 and to protect the proprietary nature of the formulation.

1,1-DIETHOXYETHANE

ID: 105-57-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**

#: **0.1000 - 2.5000** GS: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Polymer species**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H225 - Highly flammable liquid and vapour
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation.

UNS S30400 STAINLESS STEEL ALLOY

ID: Not registered

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**

#: **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.

BICYCLO(2.2.1)HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE

ID: 25038-36-2

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**

%: 0.1000 - 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 and to protect the proprietary nature of the formulation.

ABS RESIN

ID: 9003-56-9

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-06

%: 0.1000 - 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 and to protect the proprietary nature of the formulation.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-06

%: 0.0100 - 1.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Filler

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 and to protect the proprietary nature of the formulation.

SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES

ID: 64742-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-10-06

%: 0.0100 - 1.0000

GS: LT-1

RC: None

NANO: No

SUBSTANCE ROLE: Plasticizer

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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	GHS - Australia	H350 - May cause cancer

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation.

UNS S43000 STAINLESS STEEL ALLOY

ID: Not registered

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06	
%: 0.0100 - 1.0000	GS: NoGS	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: 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.			

STAINLESS STEEL

ID: **12597-68-1**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06	
%: 0.0100 - 1.0000	GS: NoGS	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: 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.			

POLYACETAL

ID: **30846-29-8**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06	
%: 0.0100 - 1.0000	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 and to protect the proprietary nature of the formulation.			

UNS S31600 STAINLESS STEEL ALLOY

ID: **Not registered**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06	
%: 0.0100 - 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.			

NYLON-66

ID: **32131-17-2**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-10-06	
%: 0.0100 - 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 and to protect the proprietary nature of the formulation.

POLY(2,2,4-TRIMETHYL-1,2-DIHYDROQUINOLINE)

ID: 26780-96-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**

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

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: A range in mass percentage is given to account for the variations of the product and to protect the proprietary nature of the formulation.

CARBON

ID: 7440-44-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-10-06**

#: **0.0000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

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 and to protect the proprietary nature of the formulation.

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: 2020-10-	EXPIRY DATE:	CERTIFIER OR LAB: N/A
APPLICABLE FACILITIES: N/A	06		
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES:			
OTHER	Environmental Product Declaration (EPD) by SCS		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-10-	EXPIRY DATE: 2022-	CERTIFIER OR LAB: SCS Global
APPLICABLE FACILITIES: All	02	10-01	
CERTIFICATE URL:			
https://www.scs-certified.com/products/cert_pdfs/SCS-EPD-04676_Sloan_Sensor-Flushometers_050719.pdf			
CERTIFICATION AND COMPLIANCE NOTES: PCR Part A: LCA Calculation Rules and Report Requirements v2017; Sustainable Minds (January 2017); Part B: Product Group Definition Commercial Flushometer Valves Product Group v3.0; Sustainable Minds (December 13, 2016).			

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

The SOLIS is powered by a state-of-the-art photovoltaic technology that delivers sustainable and reliable solar operation. It is available in 0.5 gpf, 0.25 gpf, 0.125 gpf, 1.28 gpf, 1.1 gpf and 1.6/1.1 dual-flush with Smart Sense Technology™ for controlled efficiency with every flush. The sensor automatically initiates a heavy or light flush based on how long the user remains in the sensor range and operates by means of an infrared sensor with multiple-focused, lobular sensing fields for high and low target detection. Sloan SOLIS® Solar-powered Flushometers incorporate an intuitive button design for easy manual activation. ECOS The ECOS battery-powered sensor flushometer is available in 0.5 gpf, 0.25 gpf, 0.125 gpf, 1.28 gpf, 1.1 gpf and 1.6/1.2 dual-flush with Smart Sense Technology™ for controlled efficiency with every flush. The push button(s) on top of the flush valve enable manual flushing with a standard or reduced flush at restroom visitor's discretion. G2 Sloan's G2 is a battery-powered 1.28 gpf sensor flushometer. A push button on top of the flush valve enables manual flushing at restroom visitor's discretion.

MANUFACTURER INFORMATION

MANUFACTURER: Sloan Valve Company
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WEBSITE: www.sloan.com

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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.