

# Royal 111 - Diaphragm Flushometers by Sloan Valve Company

# Health Product Declaration v2.0

CLASSIFICATION: 10800

created via: HPDC Online Builder

PRODUCT DESCRIPTION: THE SLOAN ROYAL 111 IS A MANUAL EXPOSED FLUSHOMETER FOR FLOOR MOUNT OR WALL HUNG WATER CLOSETS. FLUSH ACCURACY IS CONTROLLED BY CID TECHNOLOGY THAT ALLOWS FOR ENHANCED WATER EFFICIENCY. THE DURABILITY OF THE FLUSHOMETER IS FACILITATED WITH HIGH COPPER, LOW ZINC BRASS CASTINGS FOR DEZINCIFICATION RESISTANCE.

## Section 1: Summary

### CONTENT INVENTORY

<p>Threshold per material</p> <p><input checked="" type="radio"/> 100 ppm</p> <p><input type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Per OSHA MSDS</p> <p><input type="radio"/> Other</p>	<p>Residuals and impurities considered in 1 of 1 materials</p> <p><input checked="" type="radio"/> see Section 2: Material Notes</p> <p><input checked="" type="radio"/> see Section 5: General Notes</p>	<p>Based on the selected Content Inventory Threshold:</p> <p>Characterized.....</p> <p>Are the Percent Weight and Role provided for all substances? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Screened.....</p> <p>Are all substances screened using Priority Hazard Lists with results disclosed? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Identified.....</p> <p>Are all substances disclosed by Name (Specific or Generic) and Identifier? <input checked="" type="radio"/> Yes <input type="radio"/> No</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**

ROYAL FLUSHMETER 111 [ COPPER **LT-UNK** ZINC **LT-P1** | AQU | MUL | PHY LEAD **LT-1** | MAM | AQU | DEV | REP | CAN | PBT | MUL | END | GEN TIN **LT-UNK** 430 STAINLESS STEEL **UNK** ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER **LT-UNK** ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM) **LT-UNK** UNDISCLOSED CHEMICAL #1 **UNK** UNDISCLOSED CHEMICAL #2 **LT-1** | CAN | MUL BRASS **UNK** STAINLESS STEEL **UNK** NYLON 6,6 **LT-UNK** POLYETHYLENE **LT-UNK** 304 STAINLESS STEEL **UNK** PHENOL, 2,6-DIMETHYL-, HOMOPOLYMER **LT-UNK** RUBBER, SYNTHETIC, ACRYLIC **LT-UNK** ]

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

VOC Content data is not applicable for this product category.

### CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: February 27, 2017	EXPIRY DATE*: February 27, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: March 3, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



## Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: [www.hpd-collaborative.org](http://www.hpd-collaborative.org) and [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org).

### ROYAL FLUSHMETER 111 %: 0.0000 - 100.0000 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: Yes

Material Notes:

#### COPPER

ID: 7440-50-8

%: 72.4800 - 72.4800

GS: LT-UNK

RC: None

NANO: NO

ROLE: Body Structure Component

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

#### SUBSTANCE NOTES:

#### ZINC

ID: 7440-66-6

%: 13.2000 - 13.2000

GS: LT-P1

RC: None

NANO: NO

ROLE: Body Structure Component

#### HAZARDS:

#### AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

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:

#### LEAD

ID: 7439-92-1

%: 5.6700 - 5.6700

GS: LT-1

RC: None

NANO: NO

ROLE: Body Structure Component

**HAZARDS:****AGENCY(IES) WITH WARNINGS:**

MAMMALIAN	EU - R-phrases	R20 - Harmful by Inhalation (gas or vapor or dust/mist)
MAMMALIAN	EU - R-phrases	R22 - Harmful if Swallowed
ACUTE AQUATIC	EU - R-phrases	R50 - Very Toxic to Aquatic Organisms
DEVELOPMENTAL	EU - R-phrases	R61 - May cause harm to the unborn child
REPRODUCTIVE	EU - R-phrases	R62 - Possible risk of impaired fertility
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 - Priority PBTs (PPT)	Priority PBT
PBT	US EPA - Toxics Release Inventory PBTs	PBT
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
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
DEVELOPMENTAL	EU - GHS (H-Statements)	H360Df - May damage the unborn child. Suspected of damaging fertility
REPRODUCTIVE	EU - GHS (H-Statements)	H360Fd - May damage fertility. Suspected of damaging 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
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A

SUBSTANCE NOTES:

**TIN**

ID: 7440-31-5

%: 2.2400 - 2.2400      GS: LT-UNK      RC: None      NANO: NO      ROLE: Body Structure Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**430 STAINLESS STEEL**

ID: 12597-68-1

%: 1.3500 - 1.3500      GS: UNK      RC: None      NANO: NO      ROLE: Body Structure Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER**

ID: 9003-56-9

%: 1.2600 - 1.2600      GS: LT-UNK      RC: None      NANO: NO      ROLE: Flow Ring Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

%: 0.8800 - 0.8800

GS: LT-UNK

RC: None

NANO: NO

ROLE: Diaphragm Component

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED CHEMICAL #1

ID:

%: 0.7800 - 0.7800

GS: UNK

RC: None

NANO: NO

ROLE: O-ring Component

HAZARDS:

None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UNDISCLOSED CHEMICAL #2

ID:

%: 0.6500 - 0.6500

GS: LT-1

RC: None

NANO: NO

ROLE: Filter Ring Component

HAZARDS:

CANCER

EU - R-phrases

R45 - May cause cancer

CANCER

EU - GHS (H-Statements)

H350 - May cause cancer

CANCER

EU - REACH Annex XVII CMRs

Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man

MULTIPLE

ChemSec - SIN List

CMR - Carcinogen, Mutagen &/or Reproductive Toxicant

CANCER

EU - Annex VI CMRs

Carcinogen Category 1B - Presumed Carcinogen based on animal evidence

SUBSTANCE NOTES:

BRASS

ID: 12597-71-6

%: 0.6300 - 0.6300

GS: UNK

RC: None

NANO: NO

ROLE: Screw Head Driver Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**STAINLESS STEEL**

ID: 12597-68-1

%: 0.2000 - 0.2000

GS: UNK

RC: None

NANO: NO

ROLE: Body Structure Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified as Stainless Steel 316

**NYLON 6,6**

ID: 32131-17-2

%: 0.1900 - 0.1900

GS: LT-UNK

RC: None

NANO: NO

ROLE: Baffle Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**POLYETHYLENE**

ID: 9002-88-4

%: 0.1300 - 0.1300

GS: LT-UNK

RC: None

NANO: NO

ROLE: Insert Plug Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**304 STAINLESS STEEL**

ID: 12597-68-1

%: 0.1000 - 0.1000

GS: UNK

RC: None

NANO: NO

ROLE: Body Structure Component

**HAZARDS:**

**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PHENOL, 2,6-DIMETHYL-, HOMOPOLYMER

ID: 25134-01-4

%: 0.0300 - 0.0300

GS: LT-UNK

RC: None

NANO: NO

ROLE: Refill Head  
Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

RUBBER, SYNTHETIC, ACRYLIC

ID: 67254-76-6

%: 0.0200 - 0.0200

GS: LT-UNK

RC: None

NANO: NO

ROLE: O-ring  
Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:



### Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.



### 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.



### Section 5: General Notes

The diaphragm flushometers that are bracketed into the Royal-111 model include: Royal 111-1.28, Royal 113-1.28, Royal 115-1.28, Royal 116-1.28, Royal 186-0.125, Royal 186-0.25, Royal 186-0.5, Sloan 115-1.28, Sloan 116-1.28 and Sloan 186-0.5



## MANUFACTURER INFORMATION

MANUFACTURER: Sloan Valve Company

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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

**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) BM-2  
Benchmark 2 (use but search for safer substitutes)

**LT-1** List Translator Likely Benchmark 1

**BM-1** Benchmark 1 (avoid - chemical of high concern)

**LT-UNK** List Translator Benchmark Unknown (insufficient  
information from List Translator lists to benchmark)

**BM-U** Benchmark Unspecified (insufficient data to benchmark)

**UNK** 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

**Nano** Composed of nanoscale particles or nanotechnology

### Declaration Level

**Self-declared** Manufacturer's self-declaration (First Party)

**Independent Lab** Manufacturer's self-declaration using results from an independent lab

**Second Party** Verification by trade association or other interested party

**Third Party** Verification by independent certifier

**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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.