CX Concealed Flushometers - Manual Operated
by Sloan Valve Company

Health Product
Declaration v2.2

HPD UNIQUE IDENTIFIER: 23100
CLASSIFICATION: 22 42 43 Flushometers

PRODUCT DESCRIPTION: The CX flushometer is a product of over a century’s work to produce the very best in advanced technology for engineers. We took the main concerns an engineer faces — product functionality, size and performance — and provided solutions. The concealed, clean valve and body design is ideal for new construction or as a renovation to most existing plumbing systems.

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
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?
- Yes
- No

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

CX CONCEALED FLUSHOMETERS - MANUAL OPERATED [ BRASS NoGS UNS Z33520 ZINC ALLOY NoGS NYLON-66 LT-UNK UNS C89833 COPPER ALLOY NoGS STAINLESS STEEL NoGS ABS RESIN LT-UNK BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE LT-UNK 1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE LT-UNK 304 STAINLESS STEEL NoGS STEEL NoGS POLYCAPRAM LT-UNK CARBON BLACK BM-1 | CAN POLYSTYRENE LT-UNK BICYCLO(2.2.1)HEPT-2-ENE, 5-ETHYLIDENE-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK 4,7-METHANO-1H-INDENE, 3A,4,7,7A-TETRAHYDRO-, POLYMER WITH ETHENE AND 1-PROPENE LT-UNK CADMIUM SULFOSELENIDE ORANGE LT-1 | CAN | PBT | MUL CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK POLY(2,2,4-TRIMETHYL-1,2-DIHYDROQUINOLINE) LT-P1 | 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:
All the chemicals that fall above the stated threshold are included and screened against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. Two 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
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

CX CONCEALED FLUSHOMETERS - MANUAL OPERATED

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

%: 40.0000 - 45.0000
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

%: 25.0000 - 30.0000
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.

NYLON-66
ID: 32131-17-2
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-10-06

%: 5.0000 - 10.0000
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 and to protect the proprietary nature of the formulation.
<table>
<thead>
<tr>
<th>Substance</th>
<th>ID</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS:</th>
<th>RC:</th>
<th>NANO:</th>
<th>SUBSTANCE ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNS C89833 COPPER ALLOY</td>
<td></td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>5.0000 - 10.0000</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Structure component</td>
<td>None found; No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>STAINLESS STEEL</td>
<td>12597-68-1</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>1.0000 - 5.0000</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Structure component</td>
<td>None found; No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>ABS RESIN</td>
<td>9003-56-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Polymer species</td>
<td>None found; No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE</td>
<td>9003-55-8</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Polymer species</td>
<td>None found; No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>1,3,5-TRIOXANE, POLYMER WITH 1,3-DIOXOLANE</td>
<td>24969-26-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>1.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Polymer species</td>
<td>None found; No warnings found on HPD Priority Hazard Lists</td>
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<tr>
<td>Substance</td>
<td>ID</td>
<td>HAZARD SCREENING METHOD</td>
<td>HAZARD SCREENING DATE</td>
<td>%:</td>
<td>GS</td>
<td>RC</td>
<td>NANO</td>
<td>SUBSTANCE ROLE</td>
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<tr>
<td>304 STAINLESS STEEL</td>
<td>12597-68-1</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>1.0000 - 5.0000</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Structure component</td>
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<tr>
<td>STEEL</td>
<td>12597-69-2</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>0.1000 - 5.0000</td>
<td>NoGS</td>
<td>UNK</td>
<td>No</td>
<td>Structure component</td>
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</tr>
<tr>
<td>POLICAPRAM</td>
<td>25038-54-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>0.1000 - 1.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Polymer species</td>
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<tr>
<td>CARBON BLACK</td>
<td>1333-86-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>0.1000 - 1.0000</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
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<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
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</tr>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
<td></td>
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</tr>
</tbody>
</table>

**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 a filler in the EPDM compounds.

**POLYSTYRENE**

| ID: 9003-53-6 |

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-06  
**%:** 0.1000 - 0.5000  
**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.

**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 - 0.5000  
**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.

**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 - 0.5000  
**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.

**CADMIUM SULFOSELENIDE ORANGE**

| ID: 12656-57-4 |

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-10-06  
**%:** 0.1000 - 0.5000  
**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.
<table>
<thead>
<tr>
<th>Substance</th>
<th>Substance Role</th>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>ID</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE</td>
<td>Filler</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>65997-17-3</td>
<td>0.0000 - 5.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>POLY(2,2,4-TRIMETHYL-1,2-DIHYDROQUINOLINE)</td>
<td>Antioxidant</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-10-06</td>
<td>26780-96-1</td>
<td>0.0000 - 0.5000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

- **CANCER**
  - **IARC**: Group 1 - Agent is Carcinogenic to humans
  - **CA EPA - Prop 65**: Carcinogen
  - **US CDC - Occupational Carcinogens**: Occupational Carcinogen
  - **US NIH - Report on Carcinogens**: Known to be a human Carcinogen

- **PBT**
  - **OR DEQ - Priority Persistent Pollutants**: Priority Persistent Pollutant - Tier 1

- **MULTIPLE**
  - **German FEA - Substances Hazardous to Waters**: Class 2 - Hazard to Waters
  - **GHS - Korea**: Carcinogenicity - Category 1 [H350 - May cause cancer]
  - **GHS - New Zealand**: 6.7A - Known or presumed human carcinogens
  - **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.
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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CDPH Standard Method V1.2 (Section 01350/CHPS) - Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>N/A</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2020-10-06</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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 concealed flushometers that are bracketed into the Manual CX model include: CX 158-1.6, CX 158-1.28, CX 198-0.5, CX 198-0.25, and CX 198-0.125.
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: Sloan Valve Company
ADDRESS: 10500 Seymour Ave
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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
LAN Land toxicity
MAM Mammalian/systemic/organ toxicity
MUL Multiple
NEU Neurotoxicity
NF Not found on Priority Hazard Lists
OZO Ozone depletion
PHY Physical hazard (flammable or reactive)
REP Reproductive
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
UNK Unknown

GreenScreen (GS)

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

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.