# LPD Strainer by The Metraflex Company

# Health Product Declaration v2.1

created via: HPDC Online Builder

## CLASSIFICATION: 23 21 00 Hydronic Piping and Pumps

**PRODUCT DESCRIPTION:** The LPD Strainer replaces the traditional 'Y' or basket strainer in HVAC and plumbing systems. The LPD features a highly engineered flow path and 30% larger screen to provide a significantly lower pressure drop than traditional strainers.

# Section 1: Summary

# **CONTENT INVENTORY**

#### **Inventory Reporting Format**

- C Nested Materials Method
- Basic Method

#### **Threshold Disclosed Per**

Material
 Product

100 ppm
1,000 ppm
Per GHS SDS
Per OSHA MSDS

C Other

Threshold level

# **Residuals/Impurities**

Considered
 Partially Considered
 Not Considered

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

# Are All Substances Above the Threshold Indicated:

Characterized • Yes • No Percent Weight and Role Provided?

Screened © Yes O No Using Priority Hazard Lists with Results Disclosed?

Identified O Yes O No Name and Identifier Provided?

#### 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

LPD STRAINER [ IRON LT-P1 | END SILICON LT-UNK ALKYD RESIN LT-UNK / NoGS CALCIUM CARBONATE BM-3 MANGANESE LT-P1 | END | MUL | REP CHROMIUM LT-P1 | RES | END | SKI ]

## **VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

#### INVENTORY AND SCREENING NOTES:

Metraflex worked with the HPDC Approved Preparer, ToxServices, 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.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings. VOC emissions: N/A

#### CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

• No

PREPARER: ToxServices LLC VERIFIER: VERIFICATION #: SCREENING DATE: 2018-06-26 PUBLISHED DATE: 2018-07-06 EXPIRY DATE: 2021-06-26

# Basic Method / Product Threshold

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

| DOUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES CONSIDERED: Ye                          |   |                                  |                  |                                  | Yes            |                               |  |
|--|---|----------------------------------|------------------|----------------------------------|----------------|-------------------------------|--|
| SIDUALS AND IMPURITIES NOTES<br>siduals and impurities we<br>rmulation disclosure, inc     | ere considered ur                       | nder the prepara                 | tion of this HPD | . This was                       | accomplished   |                               |  |
| IRON   |   |                                  |                  |                                  |                | ID: <b>7439-8</b>             |  |
| %: 92.5100 - 92.5100   | GS: <b>LT-P1</b>                        | RC: None                         | NANO: <b>NO</b>  | ROLE: St                         | ructure Compo  | nent                          |  |
| HAZARDS:   | AGENCY(IES) WITH V                      | VARNINGS:                        |                  |                                  |                |                               |  |
| ENDOCRINE  | TEDX - Potentia                         | al Endocrine Disrupto            | ors Poter        | ntial Endocrine                  | Disruptor      |                               |  |
|  |   |                                  |                  |                                  |                | *3rd Party Screened           |  |
| SUBSTANCE NOTES:   |   |                                  |                  |                                  |                |                               |  |
| SUBSTANCE NOTES:<br>SILICON<br>%: 2.7800 - 2.7800  | gs: <b>LT-UNK</b>                       | RC: <b>None</b>                  | NANO: <b>NO</b>  | ROLE: <b>S</b>                   | Structure Comp | ID: <b>7440-2</b>             |  |
| SILICON  | GS: <b>LT-UNK</b><br>AGENCY(IES) WITH V |                                  | NANO: <b>No</b>  | ROLE: <b>S</b>                   | Structure Comp |                               |  |
| SILICON<br>%: 2.7800 - 2.7800  | AGENCY(IES) WITH V                      |                                  |                  | ROLE: <b>\$</b>                  | Structure Comp | ponent                        |  |
| SILICON<br>%: 2.7800 - 2.7800<br>HAZARDS:  | AGENCY(IES) WITH V                      | VARNINGS:                        |                  | ROLE: S                          | Structure Comp | ponent                        |  |
| SILICON<br>%: 2.7800 - 2.7800<br>HAZARDS:<br>None Found                                    | AGENCY(IES) WITH V                      | VARNINGS:                        |                  | ROLE: S                          | Structure Comp | oonent<br>*3rd Party Screened |  |
| SILICON<br>%: 2.7800 - 2.7800<br>HAZARDS:<br>None Found<br>SUBSTANCE NOTES:                | AGENCY(IES) WITH V                      | und on HPD Priority              | lists            | ROLE: <b>S</b><br>ANO: <b>No</b> | Structure Comp | *3rd Party Screened           |  |
| SILICON<br>%: 2.7800 - 2.7800<br>HAZARDS:<br>None Found<br>SUBSTANCE NOTES:<br>ALKYD RESIN | AGENCY(IES) WITH W                      | VARNINGS:<br>und on HPD Priority | lists            |                                  |                | *3rd Party Screened           |  |

chemical constituents. The testing revealed that the paint is a alkyd resin and there are three CAS#s that can be associated with an alkyd resin: CAS# 68333-62-0; CAS# 63148-69-6; and CAS# 66070-61-9. ToxServices screened all three CAS#s through the HPD 2.1 Builder Tool and determined that none of the three CAS#s had any identified hazards that would be required to be listed on this HPD.

| CALCIUM CARBONATE  |                    |                          |                 |                       |  |
|--------------------|--------------------|--------------------------|-----------------|-----------------------|--|
| %: 0.3371 - 0.3371 | GS: <b>BM-3</b>    | RC: None                 | NANO: <b>NO</b> | ROLE: Paint Component |  |
| HAZARDS:           | AGENCY(IES) WITH V | WARNINGS:                |                 |                       |  |
| None Found         | No warnings fo     | ound on HPD Priority lis | sts             | *3rd Party Screened*  |  |

SUBSTANCE NOTES: The GreenScreen Benchmark® assessment score of BM-3 was provided through the HPD 2.1 Builder Tool.

| MANGANESE          |                        |                      |                 |                                     | ID: 7439-96-  |  |
|--------------------|------------------------|----------------------|-----------------|-------------------------------------|---------------|--|
| %: 0.1800 - 0.1800 | GS: <b>LT-P1</b>       | RC: None             | NANO: <b>NO</b> | ROLE: Structure Component           |               |  |
| HAZARDS:           | AGENCY(IES) WITH       | WARNINGS:            |                 |                                     |               |  |
| ENDOCRINE          | TEDX - Potent          | ial Endocrine Disrup | tors Poter      | Potential Endocrine Disruptor       |               |  |
| MULTIPLE           | German FEA -<br>Waters | Substances Hazard    | ous to Class    | Class 2 - Hazard to Waters          |               |  |
| REPRODUCTIVE       | Japan - GHS            |                      |                 | Toxic to reproduction - Category 1B |               |  |
|                    |                        |                      |                 | *3rd Pa                             | rty Screened* |  |
|                    |                        |                      |                 |                                     |               |  |

SUBSTANCE NOTES:

| CHROMIUM                  |                   |                      |                 | ID: <b>7440-47-</b>   |  |  |
|---------------------------|-------------------|----------------------|-----------------|---|--|--|
| %: <b>0.1500 - 0.1500</b> | GS: <b>LT-P1</b>  | RC: None             | NANO: <b>NO</b> | ROLE: Structure Component                                   |  |  |
| HAZARDS:                  | AGENCY(IES) WITH  | VARNINGS:            |                 |   |  |  |
| RESPIRATORY               | AOEC - Asthm      | agens                | Asthn<br>only   | Asthmagen (ARs) - sensitizer-induced - inhalable forms only |  |  |
| ENDOCRINE                 | TEDX - Potenti    | al Endocrine Disrupt | ors Poten       | tial Endocrine Disruptor                                    |  |  |
| SKIN SENSITIZE            | KIN SENSITIZE MAK |                      | Sensi           | Sensitizing Substance Sh - Danger of skin sensitization     |  |  |
|                           |                   |                      |                 | *3rd Party Screened*  |  |  |
|                           |                   |                      |                 |   |  |  |

SUBSTANCE NOTES:

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  | N/A                        |              |                       |
|--|----------------------------|--------------|-----------------------|
| CERTIFYING PARTY: Self-declared<br>APPLICABLE FACILITIES: No VOC testing has been<br>performed on the Metraflex LPD Strainer | ISSUE DATE: 2018-<br>01-01 | EXPIRY DATE: | CERTIFIER OR LAB: N/A |
| CERTIFICATE URL:   |                            |              |                       |

CERTIFICATION AND COMPLIANCE NOTES: No VOC testing has been performed on the Metraflex LPD Strainer

# **General 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

Metraflex worked with the HPDC Approved Preparer, ToxServices, 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.

# MANUFACTURER INFORMATION

MANUFACTURER: The Metraflex Company Address: 2323 W. Hubbard St. Chicago IL 60612, USA WEBSITE: www.metraflex.com CONTACT NAME: Marty Rogin TITLE: Engineering Manager PHONE: 312-738-3800 EMAIL: martyr@metraflex.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

**GLO** Global warming

**MUL** Multiple hazards

**OZO** Ozone depletion

**NEU** Neurotoxicity

MAM Mammalian/systemic/organ toxicity

**PBT** Persistent Bioaccumulative Toxic

#### **Hazard Types**

AQU Aquatic toxicity CAN Cancer DEV Developmental toxicity END Endocrine activity EYE Eye irritation/corrosivity GEN Gene mutation

#### 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 (insuficient 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.

PHY Physical Hazard (reactive) REP Reproductive toxicity RES Respiratory sensitization SKI Skin sensitization/irritation/corrosivity LAN Land Toxicity NF Not found on Priority Hazard Lists

LT-P1 List Translator Possible Benchmark 1 LT-1 List Translator Likely Benchmark 1 LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) NoGS Unknown (no data on List Translator Lists)