July 2019

RE: Sustainability Statement

Babcock-Davis certifies and provides the following information for use in achieving LEED v4 credit for the specification of Safety Railings and Accessories

**Product**  
Roof Hatch, Smoke Vent and Floor Door Safety Railings and Accessories

**Model(s)**  
BSRC, BSP, BSGB, BSRTA, BSRV, and BSRTA.

**Manufacturing Info**
- Final Assembly Location: Brooklyn Park, MN
- Extraction point is not within 500 miles of manufacturing

**LEED Credit Options:**

**Product Disclosure and Optimization – Material Ingredients**
- Option 1. Material Ingredient Reporting (1 point) Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm). (10 different permanently installed products from at least three different manufacturers for CS and Warehouses & Distribution Centers)
  - Health Product Declaration. The end use product has a published and complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard.

If you require any further information, please do not hesitate to contact us at (888) 312-3726.
Aluminum Safety Railing
by Babcock-Davis

CLASSIFICATION: 05 52 00 Metals: Metal Railings

PRODUCT DESCRIPTION: Babcock-Davis offers OSHA compliant fall protection safety railings and posts specifically designed for Roof Hatches, Smoke Vents and Floor Doors. This HPD covers Roof Hatch Safety Railing (BSRC), Ladder Post (BSP), Grab Bar (BSGB) Floor Door Safety Railing (BSRTA), and Smoke Vent Safety Railing (BSRV, BSRTA).

Section 1: Summary

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

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
--- | --- | --- | --- | ---
ALUMINUM SAFETY RAILING | 6061 ALUMINUM | LT-P1 | RES | PHY | END
STEEL | NOGS | UNDISCLOSED | NOGS | TITANIUM DIOXIDE | LT-2 | CAN | END
ZINC | LT-P1 | AQU | PHY | END | MUL | SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES | LT-1 | CAN | MUL

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:
This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight.

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: Inherently non-emitting source per LEED®

CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2019-07-16
PUBLISHED DATE: 2019-09-26
EXPIRY DATE: 2022-07-16
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](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### ALUMINUM SAFETY RAILING

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Residuals and impurities were considered by following the suggestions of Emerging Best Practices. More than 99% of this product consists of metal alloys, for which Pharos CML may consider the various alloying elements as "Known or Potential Residuals". Therefore, these components have been included in the Substance Notes instead of as individual content entries. Components are listed by name, CASRN, percent by weight (as per supplier SDS), and relevant GreenScreen score.

**OTHER PRODUCT NOTES:** Percent by weight of substances given as ranges to account for material differences between product lines.

#### 6061 ALUMINUM

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16

**%:** 57.50 - 60.00  
**GS:** LT-P1  
**RC:** Both  
**NANO:** No  
**ROLE:** Base Metal

**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:** Rail; gate; post. Recycled content confirmed by suppliers to range from 5% to 80%, with an average recycled content of 35%. Documentation from suppliers provide the following composition for alloying elements that may individually exceed the declared threshold: <6.6% Magnesium [7439-95-4; LT-UNK]; <2.0% Silicon [7440-21-3; LT-UNK]; <1.8% Iron [7439-89-6; LT-P1]; <1.1% Chromium [7440-47-3; LT-P1]; <1.5% Copper [7440-50-8; LT-UNK]; <4.0% Zinc [7440-66-6; LT-P1]; <1.0% Manganese [7439-96-5; LTP1]; <0.5% Vanadium [7440-62-2; LT-1]; 0.2% Titanium [7440-32-6; LT UNK]. May also include 5052 Aluminum for gate assembly. Specific guidelines are being created to address known issues related to transparency and disclosure for several material. (“Special Conditions”), including those with Form-Specific Hazards such as luminum.

#### STEEL

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2019-07-16

**%:** 39.50 - 41.00  
**GS:** NoGS  
**RC:** Both  
**NANO:** No  
**ROLE:** Base Metal
### Substance Notes:

Chain; clamp; plate; mixed hardware. Recycled content confirmed by suppliers for steel used in product ranges from 18.5% total (14.0% pre-consumer and 4.5% post-consumer recycled scrap) to 97.8% total (36.5% pre-consumer and 61.3% post-consumer recycled scrap). Documentation from suppliers provide the following composition for alloying elements that may individually exceed the declared threshold: <3.1% Silicon [7440-21-3; LT-UNK]; <2.5% Manganese [7439-96-5; LT-P1]; <1.6% Aluminum [7429-90-5; LT-P1]; <4.0% Nickel [7440-02-0; LT-1]; <3.0% Chromium [7440-47-3; LT-P1].

### Substance Notes:

Yellow powder coating. Supplier has shared substance identity under the terms of a non-disclosure agreement; substance to remain proprietary to supplier. Substance has been screened against HPD Priority Lists using the HPD Builder with results disclosed.
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
</tr>
<tr>
<td>CHRON AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H410 - Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H250 - Catches fire spontaneously if exposed to air</td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H260 - In contact with water releases flammable gases which may ignite spontaneously</td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Chain; mixed hardware.

---

**SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES**

**ID:** 64742-65-0

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD:</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2019-07-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: Impurity/Residual</td>
<td>GS: LT-1</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NANO: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ROLE: Impurity/Residual</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>EU - GHS (H-Statements)</td>
<td>H350 - May cause cancer</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man</td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>ChemSec - SIN List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>CANCER</td>
<td>EU - Annex VI CMRs</td>
<td>Carcinogen Category 1B - Presumed Carcinogen based on animal evidence</td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - Australia</td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Potential residual from processing oil. May also include 64742-53-6 (LT-1; CAN | MUL).
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

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Self-declared</th>
<th>ISSUE DATE:</th>
<th>2019-08-16</th>
<th>CERTIFIER OR LAB:</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
<td>EXPIRY DATE:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATION AND COMPLIANCE NOTES: This product qualifies as an inherently non-emitting source per LEED, as ~99% of the product consists of powder-coated metal and/or plated or anodized metal. As per LEED, "Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants."

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
MANUFACTURER INFORMATION

MANUFACTURER: Babcock-Davis
ADDRESS: 9300 73rd Avenue North
Brooklyn Park MN 55428, USA
WEBSITE: www.babcockdavis.com

CONTACT NAME: Sandy McWilliams
TITLE: Director, Specification
PHONE: 888.412.3726
EMAIL: SMcWilliams@babcockdavis.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 |
| CAN | Cancer |
| DEV | Developmental toxicity |
| END | Endocrine activity |
| EYE | Eye irritation/corrosivity |
| GEN | Gene mutation |
| GLO | Global warming |
| MAM | Mammalian/systemic/organ toxicity |
| MUL | Multiple hazards |
| NEU | Neurotoxicity |
| OZO | Ozone depletion |
| PBT | Persistent Bioaccumulative Toxic |
| 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 |

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 (insufficient data to benchmark) |

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)

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.