February 2020

RE: Sustainability Statement

Babcock-Davis certifies and provides the following information for use in achieving LEED v4 credit for the specification of Equipment Roof Hatch.

Products: Equipment Roof Hatch
Model(s): BRHE

Manufacturing Info
  o Final Assembly Location: Brooklyn Park, MN
  o 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)
    o 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.
Equipment Roof Hatch
by Babcock-Davis

CLASSIFICATION: 07 72 33 Thermal and Moisture Protection: Roof Hatches

PRODUCT DESCRIPTION: Roof Hatches provide safe and convenient access to commercial building roof areas using interior ladders and stairs. Single door and double door Equipment Roof Hatch are engineered to accommodate extra large equipment access through roofs. With options like curb mounts, heights and finishes, Babcock-Davis is sure to meet your equipment servicing needs. Equipment Roof Hatches are available with single or double door; in Aluminum, Steel or Stainless Steel (Babcock-Davis Models BRHEA, BRHEB, BRHEG, BRHES).

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
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

- Characterized
- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

- Screened
- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

- Identified
- Yes Ex/SC
- Yes
- No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.

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
--- | --- | --- | --- | ---
EQUIPMENT ROOF HATCH | UNS A95052 ALUMINUM ALLOY | NoGS | BM-1 | CAN
NoGS
POLYISOCYANurate FOAM | LT-UNK
POLYSTYRENE | LT-UNK
CELLULOSE PULP | NoGS CARBON BLACK | BM-1 | CAN
ETHYLENE/PROPYLENE/Diene TERPOLYmer (EPDM) | LT-UNK
ZINC | LT-P1
| AQU | PHY | END
MUL LIMESTONE, CALCIUM CARBONATE | LT-UNK
ALUMina TRIHyaDrate | BM-2
RES FERRIC OXIDE | BM-1 | CAN
TITANium DIOxIDE | LT-1 | CAN | END
RESIN BINDER | NoGS

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:
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. Substances not “Identified” are those considered proprietary to suppliers.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE
VOC emissions: CDPH Standard Method - Not tested

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: 2020-02-18
PUBLISHED DATE: 2020-02-19
EXPIRY DATE: 2023-02-18
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)

### EQUIPMENT ROOF HATCH

**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 95% 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.

#### UNS A95052 ALUMINUM ALLOY

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-02-18

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>61.00 - 63.00</td>
<td>NoGS</td>
<td>Both</td>
<td>No</td>
<td>Base Metal</td>
</tr>
</tbody>
</table>

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Curb and Cover, Channel, Mixed Hardware. Recycled content of Aluminum confirmed by supplier to range from 5% to about 60%, with typical recycled content of 35%. Documentation from supplier provides the following composition for alloy ingelements that may individually exceed the declared threshold: <6.6% Magnesium [7439-95-4; LT-UNK]; <1.5% Silicon [7440-21-3; LT-UNK]; <1.8% Iron [7439-89-6; LT-P1]; <1.1% Chromium [7440-47-3; LT-P1]; <4.0% Zinc [7440-66-6; LT-P1]; <1.9% Manganese [7439-96-5; LT-P1]. Curb and cover also available in 14 gauge Galvanneal Steel or 14 gauge Type 304 Stainless Steel.

#### STEEL

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-02-18

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.00 - 37.00</td>
<td>NoGS</td>
<td>Both</td>
<td>No</td>
<td>Base Metal</td>
</tr>
</tbody>
</table>

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Spring/Hinge Assembly, Hold Open Arm, Latch, Mixed Hardware. Recycled content estimated 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 supplier provides the following composition for alloying elements that may individually exceed the declared threshold: max 3.1% Silicon [7440-21-3; LT-UNK]; max 2.5% Manganese [7439-96-5; LT-P1]; max 1.6% Aluminum [7429-90-5; LT-P1]; max 1.8% Nickel [7440-02-0; LT-1]; max 1.0% Chromium [7440-47-3; LT-P1]; max0.2% Vanadium [7440-62-2; LT-1].
<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>ROLE</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYSOLYANURATE FOAM</td>
<td>9063-78-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-02-18</td>
<td>0.50 - 1.00</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Insulation</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>polystyrene</td>
<td>9003-53-6</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-02-18</td>
<td>0.30 - 0.40</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Insulation</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>cellulose pulp</td>
<td>65996-61-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-02-18</td>
<td>0.10 - 0.20</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Substrate</td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
<tr>
<td>carbon black</td>
<td>1333-86-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-02-18</td>
<td>0.10 - 0.20</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>cancers: US CDC - Occupational Carcinogens, CA EPA - Prop 65, IARC, MAK</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>occupational Carcinogen, Carcinogen - specific to chemical form or exposure route, Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources, Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
</tbody>
</table>
ETHYLENE/PROPYLENE/DIENE TERPOLYMER (EPDM)

ID: 25038-36-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-02-18

%: 0.10 - 0.20
GS: LT-UNK
RC: None
NANO: No
ROLE: Polymer

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Gaskets

ZINC

ID: 7440-66-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-02-18

%: 0.05 - 0.10
GS: LT-P1
RC: None
NANO: No
ROLE: Metallic Coating

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

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

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

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

MULTIPLE
German FEA - Substances Hazardous to Waters
Class 2 - Hazard to Waters

SUBSTANCE NOTES: Galvanized steel, Spring/Hinge Assembly, Hold Open Arm, Latch, Mixed Hardware.

LIMESTONE, CALCIUM CARBONATE

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-02-18

%: 0.00 - 0.30
GS: LT-UNK
RC: None
NANO: No
ROLE: Filler

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

None found
No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Powder coating applied to optional Steel. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern).

ALUMINA TRIHYDRATE

ID: 21645-51-2

Equipment Roof Hatch
hpdrepository.hpd-collaborative.org
HPD v2.1.1 created via HPDC Builder Page 4 of 8
<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>ROLE:</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Oxide</td>
<td>1309-37-1</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-02-18</td>
<td>0.00 - 0.20</td>
<td>BM-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>MAK</td>
<td>Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-02-18</td>
<td>0.00 - 0.20</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>TEDX</td>
<td>Potential Endocrine Disruptor</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Powder coating applied to Steel. GreenScreen Benchmark® assessment score of BM-2 was provided by the HPD Builder Tool.

**FERRIC OXIDE**

**SUBSTANCE NOTES:** Powder coating applied to Steel option. GreenScreen Benchmark® assessment score of BM-1 was provided by the HPD Builder Tool. Greenscreen® Assessment prepared by ToxServices (14 Oct 2019); chemical listed on ToxFMD Screened Chemical Library as "Pigment Red 101 - Inhalation".

**TITANIUM DIOXIDE**

**SUBSTANCE NOTES:** Powder coating applied to Steel option. Identified on the US EPA Safer Chemical Ingredient List (Green Circle - Verified Low Concern). Form-specific hazards: airborne particles of respirable size – occupational setting.

**RESIN BINDER**

**id:** Undisclosed
<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD SCREENING DATE</td>
<td>2020-02-18</td>
</tr>
<tr>
<td>%:</td>
<td>0.00 - 0.40</td>
</tr>
<tr>
<td>GS:</td>
<td>NoGS</td>
</tr>
<tr>
<td>RC:</td>
<td>None</td>
</tr>
<tr>
<td>NANO:</td>
<td>No</td>
</tr>
<tr>
<td>ROLE:</td>
<td>Binder</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>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

SUBSTANCE NOTES: Powder coating applied to Steel option. 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. Substance is not included on the Living Building Challenge (LBC) Red List Chemical Guide Version 4.0.
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 - Not tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2020-02-18</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td></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.

ALUMINUM SAFETY RAILING

HPD URL: [https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_708_Aluminum_Safety_Railing.pdf](https://hpdrepository.hpd-collaborative.org/repository/HPDs/publish_708_Aluminum_Safety_Railing.pdf)

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

OSHA compliant fall protection safety railings and posts specifically designed for Roof Hatches, Smoke Vents and Floor Doors.

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.
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

All Substances Above the Threshold Indicated Are:
- Characterized
  - Yes Ex/SC
  - Yes
  - No
- 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 | RES | PHY | END
STAINLESS STEEL | NOGS | UNDISCLOSED | NOGS | TITANIUM DIOXIDE | LT-1 | 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

Preparer: Self-Prepared
Verifier:
Verification #: 

Third Party Verified?
- Yes
- No

SCREENING DATE: 2019-07-16
PUBLISHED DATE: 2019-09-26
EXPIRY DATE: 2022-07-16
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.hpdcollaborative.org/hpd-2-1-1-standard](http://www.hpdcollaborative.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

<table>
<thead>
<tr>
<th>ID: 7429-90-5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARD SCREENING METHOD:</strong> Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE:</strong> 2019-07-16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%: 57.50 - 60.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GS:</strong> LT-P1</td>
</tr>
<tr>
<td><strong>RC:</strong> Both</td>
</tr>
<tr>
<td><strong>NANO:</strong> No</td>
</tr>
<tr>
<td><strong>ROLE:</strong> Base Metal</td>
</tr>
</tbody>
</table>

**HAZARD TYPE**  
**AGENCY AND LIST TITLES**  
**WARNINGS**

<table>
<thead>
<tr>
<th><strong>RESPIRATORY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>AOEC - Asthmagens</td>
</tr>
<tr>
<td>Asthmagen (Rs) - sensitizer-induced</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PHYSICAL HAZARD (REACTIVE)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td>H228 - Flammable solid</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PHYSICAL HAZARD (REACTIVE)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td>H250 - Catches fire spontaneously if exposed to air</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PHYSICAL HAZARD (REACTIVE)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>EU - GHS (H-Statements)</td>
</tr>
<tr>
<td>H261 - In contact with water releases flammable gases</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>ENDOCRINE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>TEDX - Potential Endocrine Disruptors</td>
</tr>
<tr>
<td>Potential Endocrine Disruptor</td>
</tr>
</tbody>
</table>

**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; LT-P1]; <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

<table>
<thead>
<tr>
<th>ID: 12597-69-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARD SCREENING METHOD:</strong> Pharos Chemical and Materials Library</td>
</tr>
<tr>
<td><strong>HAZARD SCREENING DATE:</strong> 2019-07-16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>%: 39.50 - 41.00</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GS:</strong> NoGS</td>
</tr>
<tr>
<td><strong>RC:</strong> Both</td>
</tr>
<tr>
<td><strong>NANO:</strong> No</td>
</tr>
<tr>
<td><strong>ROLE:</strong> Base Metal</td>
</tr>
</tbody>
</table>

**HAZARD SCREENING METHOD**  
**HAZARD SCREENING DATE**  
**%**  
**GS**  
**RC**  
**NANO**  
**ROLE**  

<table>
<thead>
<tr>
<th><strong>HAZARD TYPE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AGENCY AND LIST TITLES</strong></td>
</tr>
<tr>
<td><strong>WARNINGS</strong></td>
</tr>
</tbody>
</table>

## Aluminum Safety Railing

[hpdcollaborative.org](http://hpdcollaborative.org)  
HPD v2.1.1 created via HPDC Builder Page 2 of 6
### 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 provides 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].

- **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.

### Substance Notes:

- **Yellow powder coating.**

### Zinc

**ID:** 7440-66-6

**Substance Notes:** Yellow powder coating.

**Role:** Metallic Coating

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%: 0.01 - 0.10</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Metallic Coating</th>
</tr>
</thead>
</table>

### Titanium Dioxide

**ID:** 13463-67-7

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%: 0.10 - 0.30</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment</th>
</tr>
</thead>
</table>

**Substance Notes:** Yellow powder coating.

**Role:** Pigment

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%: 0.50 - 1.50</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment Resin</th>
</tr>
</thead>
</table>

### Undisclosed

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%: 0.50 - 1.50</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Pigment Resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------</td>
<td>---------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - GHS (H-Statements)</td>
<td>H400 - Very toxic to aquatic life</td>
<td></td>
<td></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>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-Statements)</td>
<td>H250 - Catches fire spontaneously if exposed to air</td>
<td></td>
<td></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>
<td></td>
<td></td>
</tr>
<tr>
<td>ENDOCRINE</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTIPLE</td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

---

## SOLVENT-DEWAXED HEAVY PARAFFINIC PETROLEUM DISTILLATES

**ID:** 64742-65-0

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2019-07-16

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>Inherently non-emitting source per LEED®</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY:</td>
<td>Self-declared</td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-08-16</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</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

Aluminum Safety Railing
### 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

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU</td>
<td>Aquatic toxicity</td>
</tr>
<tr>
<td>CAN</td>
<td>Cancer</td>
</tr>
<tr>
<td>DEV</td>
<td>Developmental toxicity</td>
</tr>
<tr>
<td>END</td>
<td>Endocrine activity</td>
</tr>
<tr>
<td>EYE</td>
<td>Eye irritation/corrosivity</td>
</tr>
<tr>
<td>GEN</td>
<td>Gene mutation</td>
</tr>
<tr>
<td>GLO</td>
<td>Global warming</td>
</tr>
<tr>
<td>MAM</td>
<td>Mammalian/systemic/organ toxicity</td>
</tr>
<tr>
<td>MUL</td>
<td>Multiple hazards</td>
</tr>
<tr>
<td>NEU</td>
<td>Neurotoxicity</td>
</tr>
<tr>
<td>OZO</td>
<td>Ozone depletion</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PHY</td>
<td>Physical Hazard (reactive)</td>
</tr>
<tr>
<td>REP</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>RES</td>
<td>Respiratory sensitization</td>
</tr>
<tr>
<td>SKI</td>
<td>Skin sensitization/irritation/corrosivity</td>
</tr>
<tr>
<td>LAN</td>
<td>Land Toxicity</td>
</tr>
<tr>
<td>NF</td>
<td>Not found on Priority Hazard Lists</td>
</tr>
</tbody>
</table>

#### 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)

#### 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

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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.