Ives Architectural Hinges
by Allegion

CLASSIFICATION:  08 71 00

PRODUCT DESCRIPTION:  Ives offers a variety of architectural hinges that will cover any need in residential and commercial applications while also exceeding code requirements. It is important to consider the door width, thickness, weight and clearance when choosing a hinge. With tested durability and consistent superior performance, Ives architectural hinges get the job done.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Considered</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Partially Considered</td>
</tr>
<tr>
<td></td>
<td>Per GHS SDS</td>
<td>Not Considered</td>
</tr>
<tr>
<td></td>
<td>Per OSHA MSDS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

Are All Substances Above the Threshold Indicated:
- Characterized: Yes No
- Percent Weight and Role Provided: Yes No

Screened: Yes No
- Using Priority Hazard Lists with Results Disclosed: Yes No
- Identified: Yes No
- Name and Identifier Provided: 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
---------|-----------|----------------------|-------------------|---------
IVES ARCHITECTURAL HINGES | IRON | LT-P1 | END DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI), CONTAINING LESS THAN 3% DMSO AS MEASURED BY IP 346 LT-P1 | PBT |
| MANGANESE | LT-P1 | END | MUL | REP | CARBON | LT-UNK | ALUMINUM | LT-P1 | RES | END | PHY | PHOSPHORUS | BM-2 | MAM | PHY | SULFUR | LT-UNK |
| CHROMIUM | LT-P1 | RES | END | SKI | NICKEL | LT-1 | CAN | RES | SKI | MAM | MUL | NITROGEN | NoGS |

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:
Inventory is based on unfinished steel and stainless options of Allegion’s Architectural hinge offering.

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

No pre-checks completed or disclosed.
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, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

<table>
<thead>
<tr>
<th>Ives Architectural Hinges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD:</strong> 100 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES CONSIDERED:</strong> Yes</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES:</strong> Impurities in metal alloy and grease application rates are considered.</td>
</tr>
<tr>
<td><strong>OTHER PRODUCT NOTES:</strong></td>
</tr>
</tbody>
</table>

**IRON**

| %: 71.3000 - 99.6000 | GS: LT-P1 | RC: UNK | NANO: No | ROLE: Metal Alloy |

**HAZARDS:**

- **ENDOCRINE**
  - TEDX - Potential Endocrine Disruptors
  - Potential Endocrine Disruptor

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.

**DISTILLATES (PETROLEUM), HYDROTREATED (MILD) HEAVY NAPHTHENIC (9CI), CONTAINING LESS THAN 3% DMSO AS MEASURED BY IP 346**

| %: 0.8000 - 0.9000 | GS: LT-P1 | RC: UNK | NANO: No | ROLE: Lubricant |

**HAZARDS:**

- **PBT**
  - EC - CEPA DSL
  - Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

**SUBSTANCE NOTES:** Range based on the composition of hinge types and application rate.

**MANGANESE**

| %: 0.2500 - 1.2500 | GS: LT-P1 | RC: UNK | NANO: No | ROLE: Metal Alloy |

**HAZARDS:**

- **ENDOCRINE**
  - TEDX - Potential Endocrine Disruptors
  - Potential Endocrine Disruptor
- **MULTIPLE**
  - German FEA - Substances Hazardous to Waters
  - Class 2 - Hazard to Waters
### CARBON

**ID:** 7440-44-0

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0500 - 1.0000</th>
<th>GS:</th>
<th>LT-UNK</th>
<th>RC:</th>
<th>UNK</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Metal Alloy</th>
</tr>
</thead>
</table>

**HAZARDS:**

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

- **None Found**

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.

### ALUMINUM

**ID:** 7429-90-5

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0400 - 0.0400</th>
<th>GS:</th>
<th>LT-P1</th>
<th>RC:</th>
<th>UNK</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Metal Alloy</th>
</tr>
</thead>
</table>

**HAZARDS:**

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

  - **RESPIRATORY**
    - AOEC - Asthmagens
    - Asthmagen (ARs) - sensitizer-induced - inhalable forms only
  - **ENDOCRINE**
    - TEDX - Potential Endocrine Disruptors
    - Potential Endocrine Disruptor
  - **PHYSICAL HAZARD (REACTIVE)**
    - EU - GHS (H-Statements)
    - H228 - Flammable solid
    - H250 - Catches fire spontaneously if exposed to air
    - H261 - In contact with water releases flammable gases

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.

### PHOSPHORUS

**ID:** 7723-14-0

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0200 - 0.0300</th>
<th>GS:</th>
<th>BM-2</th>
<th>RC:</th>
<th>UNK</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Metal Alloy</th>
</tr>
</thead>
</table>

**HAZARDS:**

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

  - **MAMMALIAN**
    - US EPA - EPCRA Extremely Hazardous Substances
    - Extremely Hazardous Substances
  - **PHYSICAL HAZARD (REACTIVE)**
    - EU - GHS (H-Statements)
    - H228 - Flammable solid

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.

### SULFUR

**ID:** 7704-34-9

<table>
<thead>
<tr>
<th>%:</th>
<th>0.0000 - 0.0300</th>
<th>GS:</th>
<th>BM-2</th>
<th>RC:</th>
<th>UNK</th>
<th>NANO:</th>
<th>No</th>
<th>ROLE:</th>
<th>Metal Alloy</th>
</tr>
</thead>
</table>

**HAZARDS:**

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

  - **MAMMALIAN**
    - US EPA - EPCRA Extremely Hazardous Substances
    - Extremely Hazardous Substances
  - **PHYSICAL HAZARD (REACTIVE)**
    - EU - GHS (H-Statements)
    - H228 - Flammable solid

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.
### CHROMIUM

**%:** 0.0000 - 20.0000  
**GS:** LT-P1  
**RC:** UNK  
**NANO:** No  
**ROLE:** Metal Alloy

**HAZARDS:**  
**AGENCY(IES) WITH WARNINGS:**  
- **RESPIRATORY**  
  - AOEC - Asthmaengens  
  - Asthmaengen (ARs) - sensitizer-induced - inhalable forms only
- **ENDOCRINE**  
  - TEDX - Potential Endocrine Disruptors  
  - Potential Endocrine Disruptor
- **SKIN SENSITIZE**  
  - MAK  
  - Sensitizing Substance Sh - Danger of skin sensitization

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.

### NICKEL

**%:** 0.0000 - 8.5000  
**GS:** LT-1  
**RC:** UNK  
**NANO:** No  
**ROLE:** Metal Alloy

**HAZARDS:**  
**AGENCY(IES) WITH WARNINGS:**  
- **CANCER**  
  - IARC  
  - Group 1 - Agent is Carcinogenic to humans  
  - Group 2b - Possibly carcinogenic to humans
- **CANCER**  
  - CA EPA - Prop 65  
  - Carcinogen
- **CANCER**  
  - US CDC - Occupational Carcinogens  
  - Occupational Carcinogen
- **CANCER**  
  - US NIH - Report on Carcinogens  
  - Reasonably Anticipated to be Human Carcinogen
- **RESPIRATORY**  
  - AOEC - Asthmaengens  
  - Asthmaengen (ARs) - sensitizer-induced - inhalable forms only
- **SKIN SENSITIZE**  
  - EU - GHS (H-Statements)  
  - H317 - May cause an allergic skin reaction
- **CANCER**  
  - EU - GHS (H-Statements)  
  - H351 - Suspected of causing cancer
- **ORGAN TOXICANT**  
  - EU - GHS (H-Statements)  
  - H372 - Causes damage to organs through prolonged or repeated exposure
- **MULTIPLE**  
  - German FEA - Substances Hazardous to Waters  
  - Class 2 - Hazard to Waters
- **CANCER**  
  - MAK  
  - Carcinogen Group 1 - Substances that cause cancer in man
- **RESPIRATORY**  
  - MAK  
  - Sensitizing Substance Sah - Danger of airway & skin

**SUBSTANCE NOTES:** This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.
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<table>
<thead>
<tr>
<th>NITROGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 7727-37-9</td>
</tr>
<tr>
<td>%: 0.0000 - 0.0400</td>
</tr>
</tbody>
</table>

HAZARDS: None Found

AGENCY(IES) WITH WARNINGS:

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This substance is part of the steel alloy matrix. Due to the commodity nature of steel, the status of recycled content is unknown. Given ranges are due to metal alloy options used for the product and variations in hinge styles.
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>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>CERTIFICATE URL:</td>
<td></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2018-07-12</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td></td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Inherently non-emitting source per LEED®

**CERTIFICATION AND COMPLIANCE NOTES:**

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

Scope of inventory include Ives Architectural Hinges made of steel or stainless steel.
MANUFACTURER INFORMATION

MANUFACTURER: Allegion
ADDRESS: 2720 Tobey Dr.
Indianapolis IN 46219, USA

CONTACT NAME: Tim Weller
TITLE: Manager of Codes, Standards and Sustainability
PHONE: 317-810-3751
EMAIL: Tim.Weller@allegion.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.

Ives Architectural Hinges
hpdrepository.hpd-collaborative.org

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