

HPD UNIQUE IDENTIFIER: 21718

CLASSIFICATION: 09 53 23 Metal Acoustical Ceiling Suspension Assemblies

PRODUCT DESCRIPTION: THE TATE STRUT STRUCTURAL CEILING GRID SYSTEM FOR DATA CENTERS IS USED WHERE LARGE, HEAVY ITEMS SUCH AS CABLE TRAYS, BUSBARS, OR OTHER HEAVY ACCESSORIES NEED TO BE SUSPENDED WITHIN A BUILDING. TATE STRUT IS FULLY CUSTOMIZABLE TO FIT EITHER A NOMINAL ACOUSTICAL TILE OR TO ANY CUSTOM MODULE SIZING. THIS HPD COVERS ALL COMPONENTS IN THE STRUCTURAL CEILING GRID SUPPORT SYSTEM AND ALL VARIATIONS WITHIN THE TATE STRUT SYSTEM.

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

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
All substances disclosed by Name (Specific or Generic) and Identifier.

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

TATE STRUT | IRON, ELEMENTAL LT-P1 | END CARBON LT-UNK
CHROMIUM LT-P1 | RES | END | SKI COPPER LT-P1 | MUL SILICON,
ELEMENTAL LT-UNK NICKEL LT-1 | RES | CAN | SKI | MAM | MUL
MANGANESE LT-P1 | END | MUL | REP ALUMINUM BM-1 | RES | PHY | END
NIOBIUM LT-UNK TITANIUM LT-UNK PHOSPHORUS BM-2 | PHY | MAM
TITANIUM DIOXIDE LT-1 | CAN | END CARBON BLACK BM-1 | CAN]

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 product is primarily composed of metal alloys and has been reported using "Option 2: Alloying Element Option" of the forthcoming Metal Alloys special condition. As such, the hazards listed in this HPD are an overestimate due to the unique exposure characteristics of metal alloying elements, specifically related to the minimal solubility, bioaccessibility, and bioavailability once alloyed.

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: 2020-09-14

PUBLISHED DATE: 2020-09-15

EXPIRY DATE: 2023-09-14



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

TATE STRUT

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: All residuals and impurities have been considered due to metal alloying elements and those that fall above the stated threshold have been included.

OTHER PRODUCT NOTES:

IRON, ELEMENTAL

ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-09-14

#: 94.4900 - 99.2300

GS: LT-P1

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

CARBON

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-09-14

#: 0.0500 - 0.1000

GS: LT-UNK

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

CHROMIUM

ID: 7440-47-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2020-09-14

#: 0.0100 - 0.2200

GS: LT-P1

RC: Both

NANO: No

SUBSTANCE ROLE: Alloy element

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---------------------------------------|---|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| SKIN SENSITIZE | MAK | Sensitizing Substance Sh - Danger of skin sensitization |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

COPPER

ID: 7440-50-8

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-14**

#: **Impurity/Residual** GS: **LT-P1** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---|----------------------------|
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

SILICON, ELEMENTAL

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

NICKEL

ID: 7440-02-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-14**

#: **0.0020 - 0.2200** GS: **LT-1** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Alloy element**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------|---|---|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| CANCER | IARC | Group 1 - Agent is Carcinogenic to humans |
| CANCER | IARC | 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 | Known to be a human Carcinogen |
| CANCER | US NIH - Report on Carcinogens | Reasonably Anticipated to be Human Carcinogen |
| 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 sensitization |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

MANGANESE

ID: 7439-96-5

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2020-09-14 | | |
|---|---|--|-----------------|--------------------------------------|
| %: 0.0008 - 1.6800 | GS: LT-P1 | RC: Both | NANO: No | SUBSTANCE ROLE: Alloy element |
| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS | | |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor | | |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters | | |
| REPRODUCTIVE | GHS - Japan | Toxic to reproduction - Category 1B [H360] | | |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

ALUMINUM

ID: 7429-90-5

| HAZARD SCREENING METHOD: Pharos Chemical and Materials Library | | HAZARD SCREENING DATE: 2020-09-14 | | |
|---|-----------------|--|-----------------|--------------------------------------|
| %: 0.0000 - 1.9600 | GS: BM-1 | RC: Both | NANO: No | SUBSTANCE ROLE: Alloy element |

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------------------|---------------------------------------|---|
| RESPIRATORY | AOEC - Asthmagens | Asthmagen (Rs) - sensitizer-induced |
| 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: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

NIOBIUM

ID: 7440-03-1

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

TITANIUM

ID: 7440-32-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-14**

#: **Impurity/Residual** GS: **LT-UNK** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|------------------------|--|
| None found | | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

PHOSPHORUS

ID: 7723-14-0

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-14**

#: **Impurity/Residual** GS: **BM-2** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Impurity/Residual**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|----------------------------|---|--------------------------------|
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H228 - Flammable solid |
| MAMMALIAN | US EPA - EPCRA Extremely Hazardous Substances | Extremely Hazardous Substances |

SUBSTANCE NOTES: As the steel and cast iron used are commodities, there is likely recycled content included, though the actual amount is unknown. A range is provided due to the alloy composition allowing for ranges.

TITANIUM DIOXIDE

ID: 13463-67-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-09-14**%: **0.0000 - 0.1000**GS: **LT-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|---------------------------------------|--|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| CANCER | MAK | Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |

SUBSTANCE NOTES: **The amount varies based on the chosen finish and the thickness of the coating.****CARBON BLACK**

ID: 1333-86-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2020-09-14**%: **0.0000 - 0.1000**GS: **BM-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Pigment**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
|-------------|-----------------------------------|--|
| CANCER | US CDC - Occupational Carcinogens | Occupational Carcinogen |
| CANCER | CA EPA - Prop 65 | Carcinogen - specific to chemical form or exposure route |
| CANCER | IARC | Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

SUBSTANCE NOTES: **This amount varies depending on the chosen finish and the thickness of the coating.**

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

Inherently non-emitting source per LEED®

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2020-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

09-14

CERTIFICATE URL:

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



MANUFACTURER INFORMATION

MANUFACTURER: **Tate Access Floors, Inc.**
ADDRESS: **7510 Montevideo Road**
Jessup MD 20794, USA
WEBSITE: **tateinc.com**

CONTACT NAME: **Scott Alwine**
TITLE: **Director of Marketing**
PHONE: **410-799-4790**
EMAIL: **SAlwine@tateinc.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 | LAN Land toxicity | PHY Physical hazard (flammable or reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive |
| DEV Developmental toxicity | MUL Multiple | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | NF Not found on Priority Hazard Lists | UNK Unknown |
| GEN Gene mutation | OZO Ozone depletion | |
| GLO Global warming | PBT Persistent, bioaccumulative, and toxic | |

GreenScreen (GS)

| | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-1 List Translator 1 (Likely Benchmark-1) |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | 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.) |
| BM-2 Benchmark 2 (use but search for safer substitutes) | NoGS No GreenScreen. |
| 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) | |

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 noted.