Steel membrane component (Tiles and Baffles) with/without perforations with polyester powder coat finish. by SAS International

Health Product Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 20439
CLASSIFICATION: 090 53 23 Metal Acoustical Ceiling Suspension Assemblies

Section 1: Summary

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>☑ Per GHS SDS</td>
<td>☑ Other</td>
<td>☑ Not Considered</td>
</tr>
</tbody>
</table>

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 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>STEEL MEMBRANE COMPONENT (TILES AND BAFFLES) WITH/without perforations with polyester powder coat finish.</td>
<td>STEEL MANUFACTURE, CHEMICALS (STEEL MANUFACTURE, CHEMICALS) (GALVANISED STEEL)</td>
<td>LT-UNK</td>
<td>lt-p1</td>
<td>RES END</td>
</tr>
<tr>
<td></td>
<td>6063 ALUMINUM (6063 ALUMINUM)</td>
<td>LT-UNK</td>
<td>PT1</td>
<td>END</td>
</tr>
<tr>
<td></td>
<td>PHY BIS(3,3-EPOXYPROPYLE) TEREPTHALATE (BIS(2,3-EPOXYPROPYLE) TEREPTHALATE)</td>
<td>LT-UNK</td>
<td>PT1</td>
<td>END</td>
</tr>
<tr>
<td></td>
<td>MUL 2,4,8,10-TETRAOXA-3,9-DIPROPHOSPHASPIDO(5,5)UNDECANE, 3,9-BIS(2,4-BIS1,1-DIMETHYLETHYLUXPHENOX)</td>
<td>LT-UNK</td>
<td>PT1</td>
<td>END</td>
</tr>
<tr>
<td></td>
<td>TITANIUM DIOXIDE (TITANIUM DIOXIDE)</td>
<td>LT-1</td>
<td>CAN</td>
<td>END</td>
</tr>
</tbody>
</table>

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 2 for additional listings.

VOC emissions: Eurofins Indoor Air Comfort GOLD - certified product
VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑</td>
<td></td>
</tr>
</tbody>
</table>

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
SCREENING DATE: 2018-01-23
PUBLISHED DATE: 2020-06-11
EXPIRY DATE: 2021-01-23
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)

### STEEL MEMBRANE COMPONENT (TILES AND BAFFLES) WITH/WITHOUT PERFORATIONS WITH POLYESTER POWDER COAT FINISH.

<table>
<thead>
<tr>
<th>PRODUCT THRESHOLD: 100 ppm</th>
<th>RESIDUALS AND IMPURITIES CONSIDERED: Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDUALS AND IMPURITIES NOTES: Residuals/impurities in selected raw materials are quantitatively measured and displayed in the HPD when greater than 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>OTHER PRODUCT NOTES: This declaration should be read in conjunction with product Safety Data Sheet</td>
<td></td>
</tr>
</tbody>
</table>

### STEEL MANUFACTURE, CHEMICALS (STEEL MANUFACTURE, CHEMICALS) (GALVANISED STEEL)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-01-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 90.0000 - 95.0000</td>
<td>GS: LT-UNK</td>
</tr>
<tr>
<td>RC: Both</td>
<td>NANO: No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE: Structure component</td>
<td></td>
</tr>
</tbody>
</table>

None found

**WARNINGS**

No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Residuals/impurities in selected raw materials are quantitatively measured and displayed in the HPD when greater than 1000 ppm

### 6063 ALUMINUM (6063 ALUMINUM)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-01-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 3.0000 - 4.0000</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>RC: Both</td>
<td>NANO: No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE: Alloy element</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**RESPIRATORY**

ADEC - 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:** Residuals/impurities in selected raw materials are quantitatively measured and displayed in the HPD when greater than 1000 ppm

### BIS(2,3-EPOXYPROPYL) TEREPTHALATE (BIS(2,3-EPOXYPROPYL) TEREPTHALATE)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-01-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.3000 - 1.0000</td>
<td>GS: LT-P1</td>
</tr>
<tr>
<td>RC: None</td>
<td>NANO: No</td>
</tr>
<tr>
<td>SUBSTANCE ROLE: Powder coating</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**MULTIPLE**

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

**SUBSTANCE NOTES:** Substance is bound within the coating and is not inhalable. It is not in a respirable form in the finished product

### 2,4,8,10-TETRAOXA-3,9-DIPHOSPHASPIRO(5.5)UNDECANE, 3,9-BIS(2,4-BIS(1,1-DIMETHYLETHYL)PHENOXY)- (2,4,8,10-TETRAOXA-3,9-DIPHOSPHASPIRO(5.5)UNDECANE, 3,9-BIS(2,4-BIS(1,1-DIMETHYLETHYL)PHENOXY)-)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2018-01-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>%:</td>
<td>GS:</td>
</tr>
<tr>
<td>RC:</td>
<td>NANO:</td>
</tr>
<tr>
<td>SUBSTANCE ROLE:</td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE**

**MULTIPLE**

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

**SUBSTANCE NOTES:** Substance is bound within the coating and is not inhalable. It is not in a respirable form in the finished product

<table>
<thead>
<tr>
<th>ID: 65997-19-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID: 6929-90-5</td>
</tr>
<tr>
<td>ID: 7195-44-0</td>
</tr>
<tr>
<td>ID: 26741-53-7</td>
</tr>
</tbody>
</table>
**TITANIUM DIOXIDE (TITANIUM DIOXIDE)**

**ID:** 13463-67-7

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

**HAZARD SCREENING DATE:** 2018-01-23

<table>
<thead>
<tr>
<th>%: 0.1000 - 5.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Powder coating</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HAZARD TYPE</strong></td>
<td><strong>AGENCY AND LIST TITLES</strong></td>
<td><strong>WARNINGS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</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>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Titanium Dioxide is bound within the coating and is not inhalable. Therefore is not excluded from regulatory hazard lists. It is not in a respirable form in the finished product.
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

**Eurofins Indoor Air Comfort GOLD - certified product**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-09-30</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2024-09-30</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>Eurofins</td>
</tr>
</tbody>
</table>

### VOC EMISSIONS

**CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario**

<table>
<thead>
<tr>
<th>CERTIFYING PARTY:</th>
<th>Third Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:</td>
<td>All</td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2019-09-30</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>2024-09-30</td>
</tr>
<tr>
<td>CERTIFIER OR LAB:</td>
<td>Eurofins</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.

No accessories are required for this product.

Section 5: General Notes

This HPD is provided solely for the intended purpose in connection with assessment of the product and for no other purpose. SAS International expresses no option or make no representation to the applicability, accuracy or completeness of the form, or the standard, rules, classification, warnings or referenced therein. All information provided is qualified within the declaration by reference to applicable product Safety Data Sheet which can be accessed via www.sasintgroup.com. SAS International reserves the right to review, alter or amend, remove published data without notice as our policy is one of constant improvement. The information contained in this data sheet is believed to be correct at the date of publication. Whilst SAS International will endeavour to keep its publications up to date, readers will appreciate that between publications there may be pertinent changes in the law, or other developments affecting the accuracy of the information contained in this data sheet. The data or applications do not necessarily represent an exhaustive list of applications for SAS products or performance. SAS International does not accept responsibility for the consequences of deficiency in product performance in applications different from those described within this declaration. Expert advice should be sought where such different applications are contemplated, or where the extent of any listed application is in doubt.

Steel membrane component (Tiles and Baffles) with/without perforations with polyester powder coat finish.
Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: SAS International
ADDRESS: SAS International
31 Sutton Business Park
Reading Berkshire RG6 1 AZ, UK
WEBSITE: www.sasintgroup.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

<table>
<thead>
<tr>
<th>Hazard Types</th>
<th>PHY Physical hazard (flammable or reactive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQU Aquatic toxicity</td>
<td></td>
</tr>
<tr>
<td>CAN Cancer</td>
<td></td>
</tr>
<tr>
<td>DEV Developmental toxicity</td>
<td></td>
</tr>
<tr>
<td>END Endocytotoxicity</td>
<td></td>
</tr>
<tr>
<td>EYE Eye irritation/corrosivity</td>
<td></td>
</tr>
<tr>
<td>GEN Gene mutation</td>
<td></td>
</tr>
<tr>
<td>GLO Global warming</td>
<td></td>
</tr>
<tr>
<td>LAN Land toxicity</td>
<td></td>
</tr>
<tr>
<td>MAM Mammalian/systemic/organ toxicity</td>
<td></td>
</tr>
<tr>
<td>MUL Multiple</td>
<td></td>
</tr>
<tr>
<td>NEU Neurotoxicity</td>
<td></td>
</tr>
<tr>
<td>NF Not found on Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td>OZO Ozone depletion</td>
<td></td>
</tr>
<tr>
<td>PBT Persistent, bioaccumulative, and toxic</td>
<td></td>
</tr>
<tr>
<td>PHY Physical hazard (flammable or reactive)</td>
<td></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 (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
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.

Steel membrane component (Tiles and Baffles) with/without perforations with polyester powder coat finish.