

CLASSIFICATION: 09 5670

PRODUCT DESCRIPTION: Classic tin ceiling system is available in multiple patterns as well as acoutical options. Key Features: •Industry's only extra microperforated panels •9/16" Tegular panels reduce visibility of suspension system •Variety of standard color and pattern options in Lay-in, Tegular or Nail-up sizes •18" x 18" MetalWorks Tegular panels available for Metaphors Coffers •Wide range of decorative accessories

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

Explanation(s) provided for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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

ARMSTRONG METALWORKS TIN (METALLAIRE) [**STEEL** **NoGS** **TIN** **LT-P1** **TIN** **LT-P1** **TITANIUM DIOXIDE** **LT-1** | CAN | END **CALCIUM SULFATE, 1 2-HYDRATE, POWDER** **LT-UNK** **TRIGLYCIDYL ISOCYANURATE (TGIC)** **LT-1** | RES | GEN | MAM | SKI | EYE | MUL **TRIGLYCIDYL ISOCYANURATE (TGIC)** **LT-1** | RES | GEN | MAM | SKI | EYE | MUL **BARIUM SULFATE** **BM-2** | CAN **CHROMIUM** **LT-P1** | RES | END | SKI **CHROMIUM (III) OXIDE** **LT-P1** | SKI]

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:

Residuals / impurities in select raw materials are quantitatively measured and are displayed in the HPD when greater than 100ppm.

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: ClearChem Standard BkA-CC-01.3

LCA: Environmental Product Declaration (EPD) by UL - Industry Generic

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-06-18

PUBLISHED DATE: 2018-06-18

EXPIRY DATE: 2021-06-18



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

ARMSTRONG METALWORKS TIN (METALLAIRE)

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals / impurities in select raw materials are quantitatively measured and are displayed in the HPD when greater than 1000ppm.

OTHER PRODUCT NOTES: This HPD (or this Google Portico entry) is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information, AWI expresses no opinion and makes no representations as to the applicability, suitability, accuracy or completeness of the declaration form, or the standards, rules, classifications, warnings or criteria utilized or referenced therein. Information provided herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at www.armstrongceilings.com, as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Commercial Ceilings website for more information on this product.

STEEL

ID: 12597-69-2

#: 90.0000 - 99.0000 GS: NoGS RC: Both NANO: No ROLE: Base Material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Base Material

TIN

ID: 7440-31-5

#: 5.0000 - 10.0000 GS: LT-P1 RC: None NANO: No ROLE: Coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: In Coating

TIN

ID: 7440-31-5

#: 5.0000 - 10.0000 GS: LT-P1 RC: None NANO: No ROLE: Coating

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

TITANIUM DIOXIDE

ID: 13463-67-7

%: 1.0000 - 5.0000	GS: LT-1	RC: None	NANO: No	ROLE: Pigment
HAZARDS:	AGENCY(IES) WITH 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		

SUBSTANCE NOTES: TIO2 –Titanium Dioxide is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

CALCIUM SULFATE, 1_2-HYDRATE, POWDER

ID: 7778-18-9

%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Coating
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			

SUBSTANCE NOTES: This ingredient is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

TRIGLYCIDYL ISOCYANURATE (TGIC)

ID: 2451-62-9

%: 0.1000 - 1.0000	GS: LT-1	RC: None	NANO: No	ROLE: Coating
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced		
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Candidate list		
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage		
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled		
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects		
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man		

MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	Korea - GHS	Germ cell mutagenicity - Category 1 [H340 - May cause genetic defects]
GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B

SUBSTANCE NOTES: This ingredient is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

TRIGLYCIDYL ISOCYANURATE (TGIC)

ID: 2451-62-9

#: 0.1000 - 1.0000 GS: **LT-1** RC: **None** NANO: **No** ROLE: **Coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
GENE MUTATION	EU - SVHC Authorisation List	Mutagenic - Candidate list
MAMMALIAN	EU - GHS (H-Statements)	H301 - Toxic if swallowed
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)	H318 - Causes serious eye damage
MAMMALIAN	EU - GHS (H-Statements)	H331 - Toxic if inhaled
GENE MUTATION	EU - GHS (H-Statements)	H340 - May cause genetic defects
GENE MUTATION	EU - REACH Annex XVII CMRs	Mutagen Category 2 - Substances which should be regarded as if they are Mutagenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
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GENE MUTATION	EU - Annex VI CMRs	Mutagen - Category 1B
GENE MUTATION	New Zealand - GHS	6.6A - Known or presumed human mutagens
GENE MUTATION	Japan - GHS	Germ cell mutagenicity - Category 1B

SUBSTANCE NOTES: This ingredient is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists.

It is not in a respirable form in the final product.

BARIUM SULFATE

ID: 7727-43-7

#: **0.1000 - 1.0000** GS: **BM-2** RC: **None** NANO: **No** ROLE: **Coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: This ingredient is bound within the coating and is not inhalable. Accordingly, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.

CHROMIUM

ID: 7440-47-3

#: **0.0100 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (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: Coating

CHROMIUM (III) OXIDE

ID: 1308-38-9

#: **0.0100 - 1.0000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Coating**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

SKIN SENSITIZE

MAK

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: In 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

ClearChem Standard BkA-CC-01.3

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **all**

CERTIFICATE URL:

<https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/certificates/metalworks-steel-voc-certificate.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

ISSUE EXPIRY CERTIFIER OR

DATE: DATE: LAB:

2017- 2019- Berkeley
11-08 11-08 Analytical

LCA

Environmental Product Declaration (EPD) by UL - Industry Generic

CERTIFYING PARTY: **Self-declared**

APPLICABLE FACILITIES: **all**

CERTIFICATE URL:

<https://www.armstrongceilings.com/content/dam/armstrongceilings/commercial/north-america/epds/metalworks-epd.pdf>

CERTIFICATION AND COMPLIANCE NOTES:

ISSUE EXPIRY CERTIFIER OR

DATE: DATE: LAB: **UL**

2016- 2020- Environment
03-31 03-31

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

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MANUFACTURER INFORMATION

MANUFACTURER: **Armstrong World Industries**
ADDRESS: **2500 Columbia Avenue**
LANCASTER PENNSYLVANIA 17603, United States
WEBSITE: **2500 Columbia Avenue**

CONTACT NAME: **Armstrong Techline**
TITLE: **Techline**
PHONE: **8772767876**
EMAIL: **techline@armstrongceilings.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	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
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

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.