

CLASSIFICATION: 07 42 13.19 Thermal and Moisture Protection (insulated water barrier): Insulated Metal Panels

created via: HPDC Online Builder

PRODUCT DESCRIPTION: ThermalSafe insulated metal panels have a 3"-to 8"-thick non-combustible mineral wool core and fire resistant ratings of one-to three-hours depending on thickness and a 90 minute rating for ceiling. The outside protective barrier uses 24 or 26 gauge hot dipped galvanized steel. Insulated metal panels sold under the Metl-Span brand. ThermalSafe product lines include TS42, TS42 NC, TS42 NEF.

Section 1: Summary

Nested 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

Residuals/Impurities Considered in 0 of 7 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized
Percent Weight and Role Provided? Yes No

Screened
Using Priority Hazard Lists with Results Disclosed? Yes No

Identified
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.

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:

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

GLASS/MINERAL FIBER [GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) (GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED))
 LT-UNK] STEEL [STEEL (STEEL) NoGS] POLYURETHANE [POLYURETHANE (POLYURETHANE) LT-UNK] ZINC [ZINC (ZINC) LT-P1 | AQU | MUL | END | PHY] TITANIUM DIOXIDE [TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END] POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE) [POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER) (POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER)) LT-UNK] POLYESTER [POLYESTER (POLYESTER) NoGS]

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
 VERIFIER:
 VERIFICATION #:

SCREENING DATE: 2017-08-28
 PUBLISHED DATE: 2018-01-25
 EXPIRY DATE: 2020-08-28

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

GLASS/MINERAL FIVER

#: 48.0000 - 78.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There are no know residuals or impurities and there is no mention of them in their MSDS.

OTHER MATERIAL NOTES: The variability in mineral wool content is due to the variation in panel core thickness (anywhere from 3- to 8-inches). Thickness is determined by application needs

GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) (GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED))

ID: 65997-17-3

#: 48.0000 - 78.0000

GS: LT-UNK

RC: PostC

NANO: No

ROLE: Panel core material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

STEEL

#: 21.0000 - 49.0000

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There are no known residuals or impurities and there are none listed on their MSDS.

OTHER MATERIAL NOTES: Galvalume or Galvanized (Hot Dipped) Sheet steel is used. Steel includes alloying metals with the following CAS numbers: 1309-37-1, 1314-13-2, 1314-62-1, 7439-96-5, 7440-47-3, 7440-21-3, 7440-02-0, 7440-62-2. The amount of steel used per panel unit area is the same; however the relative amount varies due to variation in mineral wool core thickness (anywhere from 3- to8-inches).

STEEL (STEEL)

ID: 12597-69-2

#: 57.5000 - 82.5000

GS: NoGS

RC: Both

NANO: No

ROLE: Protective barrier of galvanized steel coil

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There are no known residuals or impurities and none mentioned in their MSDS.

OTHER MATERIAL NOTES: Purchased adhesive however the relative amount varies due to variation in mineral wool core thickness.

POLYURETHANE (POLYURETHANE)

ID: **64440-88-6**

%: 0.9000 - 1.5000 GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Purchased ashesive**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

ZINC

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There is no known residuals or impurities and none mentioned in their MSDS.

OTHER MATERIAL NOTES: Zinc is associated with three primary hazards: aquatic toxicity, flammability, and respiratory. The last is applicable only to inhaled forms, which does not include galvanized coil. The risk of aquatic toxicity will depend on whether the zinc in the galvanized layer will leach from the panel into the environment. Finally, the risk of flammability is low as the product is designed to be fire resistant.

ZINC (ZINC)

ID: **7440-66-6**

%: 0.1000 - 0.3000 GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Galvantization of steel coil**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

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

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

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

SUBSTANCE NOTES:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There is no known residuals or impurities and there are none mentioned in their MSDS.

OTHER MATERIAL NOTES: The primary hazard associated with titanium dioxide is cancer. Despite this fact, titanium dioxide is often used in cosmetic and skin care products, including the majority of sunscreens. In the product, it is used as a pigment and embedded in the polyurethane-based coil coating.

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

%: 0.0200 - 0.0700

GS: LT-1

RC: None

NANO: No

ROLE: Coil pre-coat component (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:

POLYVINYLIDENE FLUORIDE (1, 1-DIFLUOROETHENE)

%: 0.0000 - 0.0800

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There are no known residuals or impurities and there are none mentioned on their MSDS.

OTHER MATERIAL NOTES: Binder used as a coil pre-coat component

**POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER)
(POLYVINYLIDENE FLUORIDE (1,1-DIFLUOROETHENE HOMOPOLYMER))**

ID: 24937-79-9

%: 0.0000 - 0.0800

GS: LT-UNK

RC:
NoneNANO:
NoROLE: Coil pre-coat component
(binder)

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYESTER

%: 0.0000 - 0.0600

HPD URL:

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: There are no known residuals or impurities and there are none mentioned on their MSDS.

OTHER MATERIAL NOTES: Binder used as a coil pre-coat component.

POLYESTER (POLYESTER)

ID: 113669-95-7

#: 0.0000 - 0.0600 GS: **NoGS** RC: **None** NANO: **No** ROLE: **Coil pre-coat component (binder)**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

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.

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

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Metl-Span**
ADDRESS: **1720 Lakepointe Drive**
Suite 101

CONTACT NAME: **Amanda Storer**
TITLE: **Marketing Brand Manager**
PHONE: **972.221.6656**

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.