

Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar per ASTM B122 by Copper Development Association

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: N/A

PRODUCT DESCRIPTION: Copper-nickel alloy plate, sheet, strip, and rolled bar antimicrobial applications, as manufactured by a Copper Development Association member, per ASTM B122. ASTM B122 establishes the requirements for (amongst other alloys) copper-nickel alloy plates, sheets, strips, and rolled bars made from Unified Numbering System (UNS) C70600 alloy. These materials may be used as finished products or as part of larger products or systems. In the latter case, the materials do not experience any chemical changes; rather, they are physically altered to meet the application requirements.

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

COPPER-NICKEL ALLOY PLATE, SHEET, STRIP, AND ROLLED BAR PER ASTM B122 [**COPPER** LT-UNK | **NICKEL** LT-1 | RES | CAN | SKI | MAM | MUL | **IRON** LT-P1 | END | **SILVER** BM-1 | MUL | **ZINC** LT-P1 | AQU | PHY | END | MUL | **MANGANESE** LT-P1 | END | MUL | REP | **LEAD** LT-1 | DEL | CAN | PBT | REP | MUL | END | GEN | **COBALT** LT-1 | RES | CAN | SKI | MUL | GEN | REP]

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:

Product chemistry defined in ASTM B122 (<http://www.astm.org/cgi-bin/resolver.cgi?B122>) and by UNS alloy designations referenced therein (<http://unscopperalloys.org/wrought/copper-nickels.php>)

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: WAP Sustainability Consulting

VERIFICATION #: zPr-5423

SCREENING DATE: 2018-12-13

PUBLISHED DATE: 2018-12-13

EXPIRY DATE: 2021-12-13



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

COPPER-NICKEL ALLOY PLATE, SHEET, STRIP, AND ROLLED BAR PER ASTM B122

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED:

Yes

RESIDUALS AND IMPURITIES NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). C70600 characterizes copper as "Cu value includes Ag". Silver is not intentionally added and may only be present as a residual of the process by which raw material (i.e., copper ore) is refined. However, due to the high value of silver, refining operations prioritize its removal to the highest extent practical. C70600 also characterizes nickel as "Ni value includes Co" and, similarly, cobalt is only present as a residual of the refinement process (i.e., it is not intentionally added). The UNS requirements for zinc, manganese, and lead are constrained to maximum allowable levels in C70600, indicating they are also not intentionally added.

OTHER PRODUCT NOTES: none

COPPER

ID: 7440-50-8

#: 85.1500 - 90.0000 GS: LT-UNK RC: Both NANO: No ROLE: Primary ingredient

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). C70600 characterizes copper as "Cu value includes Ag". Silver is not intentionally added and may only be present as a residual of the process by which raw material (i.e., copper ore) is refined. However, due to the high value of silver, refining operations prioritize its removal to the highest extent practical. Pre Consumer Recycled Content Products: Recyclable copper materials generated during production which is recycled within the plant where it originates, or bought back from customers or scrap dealers (i.e. punchings from stamping operations, clippings, gates/risers from castings) Post Consumer Recycled Content Products: Scrap copper wires, cables, tubes, coins, busbar, and strip, plate, and sheet (e.g., roofing, cladding, gutters, flashing) products

NICKEL

ID: 7440-02-0

#: 9.0000 - 11.0000 GS: LT-1 RC: Both NANO: No ROLE: Increases strength, corrosion resistance and ductility

HAZARDS:

AGENCY(IES) WITH 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: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). C70600 characterizes nickel as "Ni value includes Co". Cobalt is not intentionally added and may only be present as a residual of the process by which raw material (i.e., copper ore) is refined. Pre Consumer Recycled Content Products: Recyclable nickel materials generated during production which is recycled within the plant where it originates, or bought back from customers or scrap dealers Post Consumer Recycled Content Products: Scrap nickel coins and other nickel alloy products (e.g., batteries, stainless steel)

IRON ID: 7439-89-6

%: **1.0000 - 1.8000** GS: **LT-P1** RC: **Both** NANO: **No** ROLE: **Increases strength and corrosion resistance**

HAZARDS: AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). Pre Consumer Recycled Content Products: Recyclable iron materials generated during production which is recycled within the plant where it originates, or bought back from customers or scrap dealers Post Consumer Recycled Content Products: Scrap iron products (e.g., automobile and household appliances, industrial structures and equipment)

SILVER ID: 7440-22-4

%: **Impurity/Residual** GS: **BM-1** RC: **None** NANO: **No** ROLE: **Impurity/Residual**

HAZARDS: AGENCY(IES) WITH WARNINGS:

MULTIPLE German FEA - Substances Hazardous to Waters Class 3 - Severe Hazard to Waters

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). C70600 characterizes copper as "Cu value includes Ag". Silver is not intentionally added and may only be present as a residual of the process by which raw material (i.e., copper ore) is

refined. However, due to the high value of silver, refining operations prioritize its removal to the highest extent practical. The GreenScreen Assessment was performed by NSF International on 1/10/2013, revised on 2/19/2015, and can be found at <https://www.pharosproject.net/uploads/files/gs/66b94fbbd794b5e37bdeec8d321a3ec47cb6c44b.pdf>.

ZINC

ID: 7440-66-6

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
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
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
ENDOCRINE	TEDX - Potential Endocrine Disruptors			Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters			Class 2 - Hazard to Waters

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). The UNS requirements for zinc, manganese, and lead are constrained to maximum allowable levels in C70600, indicating they are also not intentionally added.

MANGANESE

ID: 7439-96-5

%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
ENDOCRINE	TEDX - Potential Endocrine Disruptors			Potential Endocrine Disruptor
MULTIPLE	German FEA - Substances Hazardous to Waters			Class 2 - Hazard to Waters
REPRODUCTIVE	Japan - GHS			Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). The UNS requirements for zinc, manganese, and lead are constrained to maximum allowable levels in C70600, indicating they are also not intentionally added.

LEAD

ID: 7439-92-1

%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
DEVELOPMENTAL	G&L - Neurotoxic Chemicals			Developmental Neurotoxicant
CANCER	US EPA - IRIS Carcinogens			(1986) Group B2 - Probable human Carcinogen
CANCER	IARC			Group 2A - Agent is probably Carcinogenic to humans

CANCER	IARC	Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
DEVELOPMENTAL	CA EPA - Prop 65	Developmental toxicity
PBT	US EPA - Priority PBTs (NWMP)	Priority PBT
PBT	WA DoE - PBT	PBT
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Female
REPRODUCTIVE	CA EPA - Prop 65	Reproductive Toxicity - Male
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
PBT	US EPA - Toxics Release Inventory PBTs	PBT
REPRODUCTIVE	EU - SVHC Authorisation List	Toxic to reproduction - Candidate list
PBT	OSPAR - Priority PBTs & EDs & equivalent concern	PBT - Chemical for Priority Action
PBT	OR DEQ - Priority Persistent Pollutants	Priority Persistent Pollutant - Tier 1
DEVELOPMENTAL	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Developmental Toxicity
REPRODUCTIVE	US NIH - Reproductive & Developmental Monographs	Clear Evidence of Adverse Effects - Reproductive Toxicity
REPRODUCTIVE	EU - GHS (H-Statements)	H360FD - May damage fertility. May damage the unborn child
DEVELOPMENTAL	EU - GHS (H-Statements)	H362 - May cause harm to breast-fed children
REPRODUCTIVE	EU - REACH Annex XVII CMRs	Toxic to Reproduction Category 1 - Substances known to impair fertility or cause Developmental Toxicity in humans
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man
CANCER	Korea - GHS	Carcinogenicity - Category 1 [H350 - May cause cancer]
REPRODUCTIVE	Korea - GHS	Reproductive toxicity - Category 1 [H360 - May damage fertility or the unborn child]
REPRODUCTIVE	New Zealand - GHS	6.8A - Known or presumed human reproductive or developmental toxicants
REPRODUCTIVE	Japan - GHS	Toxic to reproduction - Category 1A
GENE MUTATION	MAK	Germ Cell Mutagen 3a
REPRODUCTIVE	EU - Annex VI CMRs	Reproductive Toxicity - Category 1A
DEVELOPMENTAL	Australia - GHS	H360Df - May damage the unborn child. Suspected of damaging fertility

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). The UNS requirements for zinc, manganese, and lead are constrained to maximum allowable levels in C70600, indicating they are also not intentionally added.

%: Impurity/Residual	GS: LT-1	RC: None	NANO: No	ROLE: Impurity/Residual
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESPIRATORY	AOEC - Asthmagens			Asthmagen (Rs) - sensitizer-induced
RESPIRATORY	AOEC - Asthmagens			Asthmagen (G) - generally accepted
CANCER	IARC			Group 2A - Agent is probably Carcinogenic to humans
CANCER	IARC			Group 2B - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65			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
RESPIRATORY	EU - GHS (H-Statements)			H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
MULTIPLE	German FEA - Substances Hazardous to Waters			Class 3 - Severe Hazard to Waters
CANCER	MAK			Carcinogen Group 2 - Considered to be carcinogenic for man
RESPIRATORY	MAK			Sensitizing Substance Sah - Danger of airway & skin sensitization
GENE MUTATION	MAK			Germ Cell Mutagen 3a
CANCER	Australia - GHS			H350i - May cause cancer by inhalation
REPRODUCTIVE	Australia - GHS			H360F - May damage fertility

SUBSTANCE NOTES: Per ASTM B122, the products shall be produced from coppers that conform to the Unified Numbering System (UNS) chemical composition requirements for C70600 alloys (see unscopperalloys.org). C70600 characterizes nickel as "Ni value includes Co". Cobalt is not intentionally added and may only be present as a residual of the process by which raw material (i.e., copper ore) is refined.

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: **2018-**

EXPIRY DATE:

CERTIFIER OR LAB: **Self-Declared**

APPLICABLE FACILITIES: **All**

12-13

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

A list of Copper Development Association members can be found at <https://www.copper.org/about/cda-members.html>. C70600 is registered with the United States Environmental Protection Agency (US EPA) as an antimicrobial public health material with passive and continuous efficacy against 6 disease-causing bacteria including antibiotic resistant organisms like Methicillin-resistant Staphylococcus aureus (MRSA). The EPA registration # is 82012-2. C70600 and all the other US EPA-registered alloys are registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) no 'unreasonable adverse effects' standard. This means that EPA determined that these products pose no risks to public health. See <https://www.antimicrobialcopper.org/us> for more information. Related Construction Specifications Institute MasterFormat® designations include the following. These are provided as a general guideline; others sections may apply. 05 52 13 Pipe and Tube Railings 08 71 13 Automatic Door Operators 08 71 53 Security Door Hardware 08 75 00 Window Hardware 08 75 13 Automatic Window Equipment 08 75 16 Window Operators 10 28 13 Toilet Accessories 10 28 16 Bath Accessories 11 21 13 Cash Registers and Checking Equipment 11 21 23 Vending Equipment 11 21 24 Money Changing Machines 11 22 16.16 Automatic Banking Systems 11 28 13 Computers 11 28 16 Printers 11 28 23 Copiers 11 30 13 Residential Appliances 11 53 00 Laboratory Equipment 11 53 16 Laboratory Incubators 11 66 13 Exercise Equipment 11 66 23 Gymnasium Equipment 11 72 13 Examination Equipment 11 72 53 Treatment Equipment 11 76 00 Operating Room Equipment 11 98 14 Detention Door Hardware 12 31 16 Manufactured Metal Sandwich Panel Casework 12 35 00 Specialty Casework 12 35 17 Bank Casework 12 35 25 Hospitality Casework 12 35 30 Residential Casework 12 35 33 Utility Room Casework 12 35 36 Mailroom Casework 12 35 39 Commercial Kitchen Casework 12 35 50 Educational/Library Casework 12 35 53 Laboratory Casework 12 35 59 Display Casework 12 35 70 Healthcare Casework 12 35 83 Performing Arts Casework 12 35 91 Religious Casework 12 36 16 Metal Countertops 12 41 13 Desk Accessories 12 51 16.13 Metal Case Goods 12 52 13 Chairs 12 52 70 Healthcare Seating 12 54 13 Hotel and Motel Furniture 12 54 16 Restaurant Furniture 12 54 83 Custom Hospitality Furniture 12 55 13 Detention Bunks 12 55 16 Detention Desks 12 55 19 Detention Stools 12 55 23 Detention Tables 12 55 26 Detention Safety Clothes Hooks 12 55 83 Custom Detention Furniture 12 55 86 Detention Control Room Furniture 12 56 23 Religious Furniture 12 56 33 Classroom Furniture 12 56 39 Lecterns 12 56 43 Dormitory Furniture 12 56 51 Library Furniture 12 56 52

Audio-Visual Furniture 12 56 53 Laboratory Furniture 12 56 70 Healthcare Furniture 12 56 83 Custom Institutional Furniture 12 56 86 Institutional Control Room Furniture 12 61 13 Upholstered Audience Seating 12 61 16 Molded-Plastic Audience Seating 12 62 13 Folding Chairs 12 62 16 Interlocking Chairs 12 62 19 Stacking Chairs 12 62 23 Portable Bleachers 12 63 13 Stadium and Arena Bench Seating 12 63 23 Stadium and Arena Seats 12 64 00 Booths and Tables 12 65 00 Multiple-Use Fixed Seating 14 28 16 Elevator Controls 22 41 13 Residential Water Closets, Urinals, and Bidets 22 41 16 Residential Lavatories and Sinks 22 41 36 Residential Laundry Trays 22 41 39 Residential Faucets, Supplies, and Trim 22 42 13 Commercial Water Closets, Urinals, and Bidets 22 42 16 Commercial Lavatories and Sinks 22 42 23 Commercial Showers 22 42 33 Wash Fountains 22 42 36 Commercial Laundry Trays 22 42 39 Commercial Faucets, Supplies, and Trim 22 42 43 Flushometers 22 43 13 Healthcare Water Closets 22 43 16 Healthcare Sinks 22 43 19 Healthcare Bathtubs 22 43 23 Healthcare Showers 22 43 39 Healthcare Faucets 22 43 43 Healthcare Plumbing Fixture Flushometers 22 46 13 Security Water Closets and Urinals 22 46 16 Security Lavatories and Sinks 22 46 39 Security Faucets, Supplies, and Trim 22 46 43 Security Plumbing Fixture Flushometers 22 46 53 Security Plumbing Fixture Supports 22 47 13 Drinking Fountains 23 05 63 Anti-Microbial Coatings for HVAC Ducts and Equipment 23 09 13 Instrumentation and Control Devices for HVAC 23 31 13 Metal Ducts 28 14 13 Access Control Door Controllers 41 53 13 Storage Cabinets



MANUFACTURER INFORMATION

MANUFACTURER: **Copper Development Association**

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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.