



HPD UNIQUE IDENTIFIER: 203036357632

CLASSIFICATION: 22 40 00 Plumbing Fixtures

PRODUCT DESCRIPTION: Copper-Nickel-Tin Alloy, Copper-Nickel-Zinc Alloy (Nickel Silver), and Copper-Nickel Alloy Plate, Sheet, Strip, and Rolled Bar with EPA Registration for Antimicrobial Public Health Claims, as manufactured by a Copper Development Association member, per ASTM B122-22. ASTM B122-22 establishes the requirements for (amongst other alloys) copper-nickel alloy plates, sheets, strips, and rolled bars. 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. Additional Classifications can be found in Section 5: General Notes.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	
☐ Nested Materials Method	☐ 100 ppm	☒ Completed	For all contents above the threshold, the manufacturer has:
☒ Basic Method	☐ 1,000 ppm	☐ Partially Completed	Characterized ☒ Yes ☐ No
	☐ Per GHS SDS	☐ Not Completed	Provided weight and role.
Threshold Disclosed Per	☒ Other	Explanation(s) provided :	Screened ☒ Yes ☐ No
☐ Material		☒ Yes ☐ No	Provided screening results using HPDC-approved methods.
☒ Product			Identified ☒ Yes ☐ No
			Provided name and CAS RN or other 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.

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

COPPER-NICKEL ALLOY PLATE, SHEET, STRIP, AND ROLLED BAR
PER ASTM B122-22 [UNS 70600 COPPER ALLOY]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... None

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [MetalAlloy]

The formulation of each of the copper alloys was generated from the UNS designation, as found at www.unscopperalloys.org and alloys.copper.org, and duplicated in the 3E Exchange Passport Library. UNS and EN are composition-based systems of commercial materials that do not articulate a reporting threshold but are the best available options to associate individual systems and are supported by major trade associations. The specific material formulation should be obtained directly from the manufacturer of the product chosen. Metal alloys have different intrinsic characteristics than their alloying elements encapsulated therein, including health and environmental hazards. As such, alloys are generally expected to have different hazards than their alloying elements. The content reported in the connected HPDs follow the Best Practices for Metal Trade Associations Creating a Metal Alloy HPD and complies with Option 2 of the Metal Alloys Special Condition.

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

No pre-checks completed or disclosed.

Third Party Verified?	PREPARER: Self-Prepared	SCREENING DATE: 2024-10-28
☒ Yes	VERIFIER: WAP Sustainability Consulting	PUBLISHED DATE: 2024-11-20
	VERIFICATION #: zPr-22896	EXPIRY DATE: 2027-10-28

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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

COPPER-NICKEL ALLOY PLATE, SHEET, STRIP, AND ROLLED BAR PER
ASTM B122-22

PRODUCT THRESHOLD: Other	RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities identified in the copper alloys are defined by the specific UNS alloy number. HPD users may obtain a Supplier Certificate of Analysis for specific alloy composition and concentration of alloying elements.	
OTHER PRODUCT NOTES:	

UNS 70600 COPPER ALLOY

ID: UNS C70600

HAZARD DATA SOURCE: Pharos Chemical and Materials Library				
%: 100.0000	GreenScreen: See notes	RC: UNK	NANO: No	MATERIAL ROLE: Structure component
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
Hazard Screening is not applicable to this Special Condition				
METAL ALLOY HPD: See alloy HPD for alloying content inventory, GreenScreen scores, and hazards: [UNS C70600]				
METAL ALLOY NOTES: In compliance with HPDC Special Conditions Policy for Metal Alloys, the listed alloy is considered the ingredient in this product, and is reported without information regarding its alloying elements. Metal alloys have different intrinsic characteristics, including health and environmental hazards, than their alloying elements. An alloy HPD with alloying element content inventory, their GreenScreen scores, and hazards is available at the link above.				
GREENSCREEN BM-1 & LT-1 ALLOYING ELEMENTS: Nickel (LT-1), Lead (BM-1)				
LISTING NOTES:				
MATERIAL CONTENT NOTES: Recycled content type and source is dependent on the alloy manufacturer/provider.				

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: 2024-10-28 00:00:00	CERTIFIER OR LAB: None
APPLICABLE FACILITIES: All	EXPIRY DATE:	
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

Substance ranges within the HPD are due to the variability in the UNS formulations. This HPD is meant to provide likely formulations of copper products found within the ASTM standard and lists the copper alloy(s) referenced in that standard. Manufacturers should be contacted to obtain a true disclosure for the product in question. Additional copper alloys that can be used to meet the standard include: C70620, C71000, C71500, C71520, C72500, C73500, C74000, C74500, and C75200.

A list of Copper Development Association members can be found at <https://www.copper.org/about/cda-members.html>.

Related Construction Specifications Institute MasterFormat designations include the following. These are provided as a general guideline; other 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**
ADDRESS: **1660 International Drive**
Suite 600
McLean, VA 22102
COUNTRY: **USA**

WEBSITE: **copper.org**
CONTACT NAME: **Erin Smith**
TITLE: **Deputy Director, EHS & Recycling**
PHONE: **212-251-7247**
EMAIL: **erin.smith@copperalliance.us**

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-P1 List Translator Possible 1 (Possible Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS No GreenScreen.
BM-U Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

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

