

Name Bonded Metal



Product ID Classification
Website <https://www.forms-surfaces.com/bonded-metal>

Manufacturer Forms+Surfaces Contact Name Green
Address 30 Pine Street Title
Pittsburgh, PA 15223 Phone 1-800-451-0410
Email green@forms-surfaces.com

Description Bonded Metal is the product of a unique technology that casts metal granules in a tough, fiber-reinforced polymer matrix. Advanced mold-making techniques assure perfect reproduction of every fine detail in the original patterned surface. The result is lightweight but extremely durable castings with the character and appearance of solid metal.

Release Date 2016-09-06 Self-declared
Expiry Date 2019-09-06 Second Party Certifier
HPD URL <https://builder.hpd-collaborative.org/uploads/files/hpds/159/4256-20160906111754.pdf> Third Party Certificate #

SUMMARY DISCLOSURE

The content of this product was assessed for health hazard warnings as required using Pharos

Residuals Disclosure

- Measured 100 ppm (ideal)
- Measured 1000 ppm
- Predicted by process chemistry
- As per MSDS (1,000 & 10,000 ppm)
- Not disclosed
- Other

Full Disclosure of Intentional Ingredients

Yes No

Full Disclosure of Known Hazards

Yes No

Disclosure Notes

The residuals have been imported from Pharos Life Cycle Research. The residuals were imported based on the names and CAS #s of the intentional ingredients, although the names and details have not been shared for proprietary reasons.

Contents in Descending Order of Quantity

Undisclosed (Metal Powder) , Undisclosed (Fiber-reinforced polymer matrix) , Undisclosed (Residual Content)

Hazards

- PBT (Persistent Bioaccumulative Toxic)
- Cancer
- Gene Mutation
- Development
- Reproductive
- Endocrine
- Respiratory

Highest concern GreenScreen score - List Translator Benchmark 1

- Neurotoxicity
- Mammal
- Skin or Eye
- Aquatic toxicity
- Land toxicity
- Physical hazard
- Global warming
- Ozone depletion
- Multiple
- Unknown

Total VOC Content

Material (g/L) N/A
Regulatory (g/L) N/A

Does the product contain exempt VOCs?

N/A Yes No

Are there VOC-free tints available?

N/A Yes No

Notes

Certifications + Compliance

VOC Emissions Not tested
Multi-attribute ISO 14021

VOC Content N/A

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an “open standard” developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit hpdcollaborative.org.

CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level.

Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.

GS: GreenScreen Benchmark; **RC:** Recycled Content, **PC:** Post Consumer, **PI:** Post Industrial (Pre-consumer), **BO:** Both; **Nano:** comprised of nanoscale particles or nanotechnology

Name	CAS RN	% weight	GS	RC	Nano	Role
Hazard A	Warning A					
Hazard B	Warning B					
Hazard C	Warning C					
Hazard D	Warning D					
Hazard E	Warning E					
Notes						
Undisclosed (Metal Powder)	Unknown	0 - 100 %	LT-P1	PI	U	metal powders (aluminum, bronze, nickel silver)
CANCER	EU R-Phrases: R40: Limited evidence of a carcinogenic effect					
ENDOCRINE	TEDX: Potential Endocrine Disruptor					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only					
MAMMALIAN	EU R-Phrases: R23: Toxic by inhalation.					
SKIN IRRITATION	EU H-Statements: H317 May cause an allergic skin reaction					
SKIN SENSITIZE	EU R-Phrases: R43: May cause sensitization by skin contact.					
ORGAN TOXICANT	EU R-Phrases: R48: Danger of serious damage to health by prolonged exposure.					
ACUTE AQUATIC	EU R-Phrases: R52: Harmful to aquatic organisms.					
CHRON AQUATIC	EU H-Statements: H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects					
FLAMMABLE	EU H-Statements: H250 Catches fire spontaneously if exposed to air					
REACTIVE	EU H-Statements: H261 In contact with water releases flammable gases					
MULTIPLE	VwVwS: Class 2 Hazard to Waters					
All Bonded Metal components are proprietary. Bonded Aluminum contains 28% post-industrial recycled content and 1% post-consumer. Bonded Bronze contains 52% post-industrial and 0% post-consumer. Bonded Nickel Silver contains 39% post-industrial and 1% post-consumer.						
Undisclosed (Fiber-reinforced polymer matrix)	Unknown	0 - 100 %	LT-1	PI	U	fiber-reinforced polymer
CANCER	MAK: Carcinogen Group 2 - Considered to be carcinogenic for man (also in EU R-Phrases, IARC)					
DEVELOPMENTAL	EU H-Statements: H361d Suspected of damaging the unborn child					

ENDOCRINE	EU ED: Category 1 - In vivo evidence of endocrine disruption activity					
RESPIRATORY	AOEC: Asthmagen (AG) - generally accepted					
MAMMALIAN	EU R-Phrases: R20: Harmful by inhalation.					
EYE IRRITATION	EU R-Phrases: R36: Irritating to eyes.					
SKIN IRRITATION	EU R-Phrases: R38: Irritating to skin.					
ORGAN TOXICANT	EU H-Statements: H372 Causes damage to organs through prolonged or repeated exposure					
MULTIPLE	VwVwS: Class 2 Hazard to Waters					
All Bonded Metal components are proprietary. Bonded Aluminum contains 28% post-industrial recycled content and 1% post-consumer. Bonded Bronze contains 52% post-industrial and 0% post-consumer. Bonded Nickel Silver contains 39% post-industrial and 1% post-consumer.						
Undisclosed (Residual Content)	Unknown	R	LT-1			Unknown
PBT	NWMP Priority: Priority PBT (also in EPA PBT, WA PBT, TRI PBT)					
CANCER	EPA-C: (1986) Group B2 - Probable human carcinogen (also in NTP-RoC, EU R-Phrases, Prop 65, IARC, MAK)					
DEVELOPMENTAL	EU R-Phrases: R63: Possible risk of harm to the unborn child.					
REPRODUCTIVE	EU H-Statements: H360FD May damage fertility. May damage the unborn child. (also in EPA Action, EU R-Phrases)					
ENDOCRINE	EU ED: Category 2 - In vitro evidence of biological activity related to endocrine disruption (also in TEDX)					
GENE MUTATION	EU R-Phrases: R46: May cause heritable genetic damage. (also in EU H-Statements)					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only (also in EU R-Phrases)					
MAMMALIAN	EU R-Phrases: R25: Toxic if swallowed. (also in EU H-Statements)					
EYE IRRITATION	EU R-Phrases: R36: Irritating to eyes.					
SKIN IRRITATION	EU R-Phrases: R38: Irritating to skin. (also in EU H-Statements)					
SKIN SENSITIZE	EU R-Phrases: R43: May cause sensitization by skin contact.					
ACUTE AQUATIC	EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life / M-Factor of 1000 (also in EU R-Phrases)					
CHRON AQUATIC	EU H-Statements: H411 - Aquatic Chronic 2 - Toxic to aquatic life with long lasting effects					
FLAMMABLE	EU H-Statements: H225 Highly flammable liquid and vapour.					
MULTIPLE	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant) (also in VwVwS, EPA Action)					

CERTIFICATIONS AND COMPLIANCE

Certifying Party = First: Manufacturer's self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

Applicable facilities = Manufacturing sites to which testing applies.

Type	Standard or Certification			Certifier or Laboratory
	Certifying Party	Issue Date	Expiry Date	Certificate URL
	Applicable Facilities			
	Notes			
VOC Emissions	Not tested			

VOC Content	N/A		
Recycled Content	Not tested		
Multi-attribute	ISO 14021		self certifying
		2013-12-03	www.iso.org
	All facilities		
	The provided recycled content data is generated from supplier data, following the guidelines of ISO 14021 Self-declared environmental claims (Type II environmental labelling).		

ACCESSORY MATERIALS

This section is for additional products required by warranty or recommended by the manufacturer for installation (such as adhesives, fasteners, or factory coatings) or for maintenance, cleaning, or operations. Refer to Health Product Declarations, published separately, for a complete view of these products. Note: This declaration is not intended to address hazards of the installation process.

Required or Recommended Product	URL for Companion Health Product Declaration
Condition when required or recommended and/or other notes	
Ammonia-free cleaner/degreaser	
Bonded Metal requires very little maintenance. Routine dust should be removed by periodic vacuuming or with a soft brush. Fingerprints, smudges and more persistent dirt can be removed by using an ammonia-free cleaner/degreaser such as Simple Green.	
Construction adhesive	
Construction adhesive application - apply adhesive using a notched trowel and following adhesive manufacturer's written instructions.	

NOTES