

Name Vitrified Clay Products



Product ID Vitrified Clay Pipe Classification 33 30 00.00 Utilities: Sanitary Sewerage Utilities

Website www.ncpi.org

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Description A pipe made from various clays or combinations thereof which are shaped, dried, and fired to a point where the glass-forming components fuse to form a bond between the crystalline grains.

Release Date 2016-08-17 Expiry Date 2019-08-17 HPD URL https://builder.hpd-collaborative.org/uploads/files/hpds/165/102-20160817124112.pdf
Self-declared Second Party Third Party Certifier Certificate #

SUMMARY DISCLOSURE

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

Residuals Disclosure Full Disclosure of Intentional Ingredients Full Disclosure of Known Hazards Disclosure Notes
Measured 100 ppm (ideal) Measured 1000 ppm Predicted by process chemistry As per MSDS (1,000 & 10,000 ppm) Not disclosed Other
Yes No Yes No

Contents in Descending Order of Quantity

Undisclosed (Clay and Shale), WATER, Ceramic materials and wares, chemicals, urethane dimethacrylate, BARIUM CARBONATE, STYRENE BUTADIENE RUBBER (SBR), POLYESTER, Steel, Wood Fiber - unspecified, (+-)-menthyl acetate, Undisclosed (Latex)

Hazards Highest concern GreenScreen score - List Translator Possible Benchmark 1
PBT (Persistent Bioaccumulative Toxic) Cancer Gene Mutation Development Reproductive Endocrine Respiratory
Neurotoxicity Mammal Skin or Eye Aquatic toxicity Land toxicity Physical hazard Global warming Ozone depletion
Multiple Unknown

Total VOC Content Material (g/L) Regulatory (g/L) N/A N/A
Does the product contain exempt VOCs? Are there VOC-free tints available? N/A N/A Yes No Yes No

Notes

Certifications + Compliance

VOC Emissions Multi-attribute Not tested MTS SMART Building Product Standard - Gold (2006) 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 (Clay and Shale)	Unknown	94 %		N	N	Primary raw material which is quarried and brought to VCP facilities.
Unknown	Not disclosed					
	Primary raw earthen material which is quarried and brought to VCP facilities.					
WATER	7732-18-5	9.6 %	4	N	N	Used in the extrusion process to form the pipe but removed during drying and kiln firing.
None found	No warnings found on HPD Priority lists					
Ceramic materials and wares, chemicals	107539-20-8	4.6 %	LT-U	BO	U	"Grog" is unusable kiln fired vitrified clay which is purchased and put back into the manufacture of new product. Grog is sent back to the grinding operation and is recycled back through the process.
None found	No warnings found on HPD Priority lists					
urethane dimethacrylate	72869-86-4	0.66 %	LT-U	N	N	Urethane material for compression joints
None found	No warnings found on HPD Priority lists					
BARIUM CARBONATE	513-77-9	0.19 %	LT-U	N	N	process additive to ensure uniform color after firing

MAMMALIAN	EU R-Phrases: R22: Harmful if swallowed.					
STYRENE BUTADIENE RUBBER (SBR)	9003-55-8	0.14 %	LT-U	N	N	Rubber Couplings to join plain end pipe barrels. Also used as the elastomer for the jacking pipe joint
None found	No warnings found on HPD Priority lists					
POLYESTER	113669-95-7	0.08 %		N	N	Polyester material for compression joints
None found	No warnings found on HPD Priority lists					
Steel	12597-69-2	0.07 %		N	N	Stainless Steel (Series 316) is utilized as the collar material on the specialized jacking pipe
None found	No warnings found on HPD Priority lists					
Wood Fiber - unspecified		0.04 %		N	N	Particle board is used at pipe ends on the jacking pipes to transfer axial forces during installation
None found	No warnings found on HPD Priority lists					
(+)-menthyl acetate	29066-34-0	0.01 %	LT-P1	N	N	Primer applied to vitrified body to ensure adhesion of jointing materials
MULTIPLE	VwVwS: Class 2 Hazard to Waters					
Undisclosed (Latex)	Unknown	0.01 %		N	N	process additive- some of our factories apply this latex liquid on the bell ends after extrusion to ensure uniform drying prior to the firing process
Unknown	Not disclosed					
Process additive- some of our factories apply this latex liquid on the bell ends after extrusion to ensure uniform drying prior to the firing process						

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	MTS SMART Building Product Standard - Gold (2006)		Institute for Market Transformation to Sustainability (MTS)
	3rd party independent certification	2011-09-13	2018-02-27 mts.sustainableproducts.com/SMaRT_Certified.html#nogo
	All		
	Re-certified with SMaRT on August 27, 2014. New Expiry date February 27, 2018.		

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	
Vegetable Oil Based Soap	
Lubricates pipe gaskets for safe and efficient assembly. Supplied in a paste or liquid; is a stable blend of vegetable oil, soaps and surfactants with no petroleum additives.	

NOTES

NCPI Manufacturers: Gladding McBean; Logan Clay Products Company; Building Products Company; Mission Clay Products. Our manufacturers are proud to provide the longest lasting, most durable and sustainable sewer pipe ever produced.