

Name Direction Series



Product ID Direction Classification 09 30 00.00 Finishes: Tiling
Website www.emser.com/index.php? name=DIRECTION(TM)&id0=ceramic\_porcelain&id1=collectionDetailsIntro&index=229&scrollMenuporcelain=180

Manufacturer Emser Tile LLC Contact Name Paul Makowski
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- Description
Abrasion Resistance C1027 ASTM C1243 Rating I- Heavy Commercial
Breaking Strength C648 ≥ 450 lbf.
Chemical Resistance C650 RESISTANT
Water Absorption C373 ≤ .5%
Coefficient of Friction SCOF C1028 Matte Wet ≥ .60 Polished Wet ≥ .50 Textured Wet ≥ .60
Coefficient of Friction DCOF BOT3000 Wet ≤.42
Freeze-Thaw Cycling C1024 RESISTANT
Scratch Hardness MOHS 7

Release Date 2014-08-18
Expiry Date 2017-08-18
HPD URL https://tool.hpdcollaborative.org/uploads/files/hpds/358/1790-20140818185750.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
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
Full Disclosure of Known Hazards
Disclosure Notes refer to MSDS as it pertains to residual content for cutting tiles

Contents in Descending Order of Quantity

Aluminum oxide silicate (Al6O5(SiO4)2) , Iron Oxides , SILVER , THALLIUM COMPOUNDS , NICKEL COMPOUNDS , Basic zinc chromate , MERCURY , Vanadium oxide , Cobalt oxide , BARIUM OXIDE, ANHYDROUS , BERYLLIUM OXIDE , CADMIUM , ANTIMONY , CHROMIUM (III) OXIDE

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?
Are there VOC-free tints available?

Certifications + Compliance

VOC Emissions Not tested
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](http://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](http://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
<b>Hazard A</b>	<b>Warning A</b>					
<b>Hazard B</b>	<b>Warning B</b>					
<b>Hazard C</b>	<b>Warning C</b>					
<b>Hazard D</b>	<b>Warning D</b>					
<b>Hazard E</b>	<b>Warning E</b>					
<b>Notes</b>						
<b>Aluminum oxide silicate (Al6O5(SiO4)2)</b>	12068-56-3	75 - 80 %	LT-U	PC	Y	tile body
None found	No warnings found on HPD Priority lists					
intentional content contained in the body of the tile- reference MSDS sheet as it relates to cutting tile						
<b>Iron Oxides</b>		15 - 20 %	LT-U	PC	Y	tile body
CANCER	MAK: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification					
intentional content contained in the body of the tile- reference MSDS sheet as it relates to cutting tile						
<b>SILVER</b>	7440-22-4	0 - 0.1 %	LT-P1	PC	Y	tile body
MULTIPLE	VwWwS: Class 3 Severe Hazard to Waters					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>THALLIUM COMPOUNDS</b>		0 - 0.1 %	LT-P1	PC	Y	tile body
MAMMALIAN	EU R-Phrases: R28: Very toxic if swallowed. (also in EU H-Statements)					
ACUTE AQUATIC	EU R-Phrases: R51: Toxic to aquatic organisms.					
CHRON AQUATIC	EU H-Statements: H411 - Aquatic Chronic 2 - Toxic to aquatic life with long lasting effects					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>NICKEL COMPOUNDS</b>		0 - 0.1 %	LT-1	PC	Y	tile body
CANCER	IARC: Group 1: Agent is carcinogenic to humans (also in Prop 65, NIOSH-C, MAK)					
RESPIRATORY	AOEC: Asthmagen (ARs) - sensitizer-induced - inhalable forms only (also in MAK)					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>Basic zinc chromate</b>	50922-29-7	0 - 0.1 %	LT-P1	PC	Y	tile body
None found	No warnings found on HPD Priority lists					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>MERCURY</b>	7439-97-6	0 - 0.1 %	LT-1	PC	Y	tile body
PBT	NWMP Priority: Priority PBT (also in EPA PBT, TRI PBT, OSPAR)					
CANCER	MAK: Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification					
DEVELOPMENTAL	EU R-Phrases: R61: May cause harm to the unborn child. (also in EU H-Statements, Prop 65)					
REPRODUCTIVE	EU CMR (2): Reproductive Toxicity - Category 1B					
ENDOCRINE	TEDX: Potential Endocrine Disruptor					
MAMMALIAN	EU R-Phrases: R28: Very toxic if swallowed. (also in EU H-Statements)					
SKIN SENSITIZE	MAK: Sensitizing Substance Sh - Danger of skin sensitization					

ORGAN TOXICANT	EU R-Phrases: R48: Danger of serious damage to health by prolonged exposure. (also in EU H-Statements)					
ACUTE AQUATIC	EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life (also in EU R-Phrases)					
CHRON AQUATIC	EU H-Statements: H410 - Aquatic Chronic 1 - Very toxic to aquatic life with long lasting effects					
MULTIPLE	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant) (also in VwVwS)					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>Vanadium oxide</b>	11099-11-9	0 - 0.1 %	LT-P1	PC	Y	tile body
MULTIPLE	VwVwS: Class 3 Severe Hazard to Waters					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>Cobalt oxide</b>	11104-61-3	0 - 0.1 %	LT-U	U	Y	tile body
None found	No warnings found on HPD Priority lists					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>BARIUM OXIDE, ANHYDROUS</b>	1304-28-5	0 - 0.1 %	LT-U	PC	Y	tile body
None found	No warnings found on HPD Priority lists					
glaze and waterproofing membranes - all cutting in accordance with the TCNA Handbook; overall tile contains less than .1%						
<b>BERYLLIUM OXIDE</b>	1304-56-9	0 - 0.1 %	LT-1	PC	Y	tile body
CANCER	EU CMR (1): Carcinogen Category 2 - Substances which should be regarded as if they are carcinogenic to man (also in EU R-Phrases, Prop 65, EU H-Statements, EU CMR (2), IARC, EPA-C, NIOSH-C)					
MAMMALIAN	EU R-Phrases: R25: Toxic if swallowed. (also in EU H-Statements)					
EYE IRRITATION	EU R-Phrases: R36: Irritating to eyes. (also in EU H-Statements)					
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.					
ORGAN TOXICANT	EU R-Phrases: R48: Danger of serious damage to health by prolonged exposure. (also in EU H-Statements)					
MULTIPLE	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant)					
CHRON AQUATIC	EU H-Statements: H411 - Aquatic Chronic 2 - Toxic to aquatic life with long lasting effects					
ACUTE AQUATIC	EU R-Phrases: R51: Toxic to aquatic organisms.					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>CADMIUM</b>	7440-43-9	0 - 0.1 %	LT-1	PC	Y	tile body
PBT	NWMP Priority: Priority PBT (also in WA PBT, OR P3, OSPAR)					
CANCER	IARC: Group 1: Agent is carcinogenic to humans (also in NTP-RoC, EPA-C, EU CMR (1), EU R-Phrases, EU H-Statements, Prop 65, NIOSH-C, MAK, EU SVHC, EU CMR (2))					
DEVELOPMENTAL	Prop 65: Developmental toxicity (also in EU R-Phrases)					
REPRODUCTIVE	Prop 65: Male reproductive toxicity (also in EU R-Phrases, EU H-Statements)					
GENE MUTATION	EU R-Phrases: R68: Possible risk of irreversible effects (also in EU H-Statements)					
MAMMALIAN	EU R-Phrases: R25: Toxic if swallowed. (also in EU H-Statements)					
ORGAN TOXICANT	EU R-Phrases: R48: Danger of serious damage to health by prolonged exposure. (also in EU H-Statements)					
ACUTE AQUATIC	EU H-Statements: H400 - Aquatic Acute 1 - Very toxic to aquatic life (also in EU R-Phrases)					
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					
MULTIPLE	SIN: Classified CMR (Carcinogen, Mutagen &/or Reproductive Toxicant) (also in VwVwS)					
glaze and waterproofing membranes- all cutting in accordance with TCNA handbook, tile contains overall less than .1%						
<b>ANTIMONY</b>	7440-36-0	0 - 0.1 %	LT-1	PC	Y	tile body
CANCER	MAK: Carcinogen Group 2 - Considered to be carcinogenic for man					
MULTIPLE	EPA Action: TSCA Work Plan chemical - Action Plan in development					
MAMMALIAN	EU R-Phrases: R22: Harmful if swallowed.					
ACUTE AQUATIC	EU R-Phrases: R51: Toxic to aquatic organisms.					
CHRON AQUATIC	EU H-Statements: H411 - Aquatic Chronic 2 - Toxic to aquatic life with long lasting effects					
glaze and waterproofing membranes - all cutting in accordance with the TCNA Handbook; overall tile contains less than .1%						
<b>CHROMIUM (III) OXIDE</b>	1308-38-9	0 - 0.1 %	LT-U	PC	Y	tile body
None found	No warnings found on HPD Priority lists					

**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			
	2011-06-21	2021-06-21	<a href="http://www.emser.com/index.php?tabs=installationAndPetterns&amp;id1=collectionDetails&amp;name=PIETRE_DEL_NORD(TM)&amp;id0=ceramic_porcelain&amp;index=56&amp;scrollMenuporcelain=422">www.emser.com/index.php?tabs=installationAndPetterns&amp;id1=collectionDetails&amp;name=PIETRE_DEL_NORD(TM)&amp;id0=ceramic_porcelain&amp;index=56&amp;scrollMenuporcelain=422</a>	
8431 Santa Monica Blvd Los Angeles CA 90069				

**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
<b>Condition when required or recommended and/or other notes</b>	
Grout/Mortar	
Grout, mortar, or other water-proofing membranes. All installations in accordance with TCNA Handbook.	

**NOTES**

Tiles do not get tested for VOC's as a result of their production process. Any and all carcinogens reported in the finished product are non-hazardous in their stable form. An MSDS will explain hazards as they pertain to cutting the material and will address respiratory, skin and eye protection cautions. The origin for the clay, quartz and feldspar and other raw components are- Huizhou, Guangzouh, Zhongshan and nearby cities, Guangdong Province, China. The finished product is manufactured in - Dongguan City, Guangdong Province, China. There is no recycled content in this product. All statements and references contained herein are intended to be correct, complete and current. Information is subject to change depending on revisions to standards or changes in production.