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## HPD Toolshed

**Name**

Saint-Astier Natural Hydraulic Lime

**Product ID**

NHL

**Classification**

09 25 00.00 Finishes: Other Plastering

**Website**

www.limes.us

**Manufacturer**

TransMineral USA

**Address**

201 Purrington Road  
Petaluma, CA 94952

**Name**

Michel Couvreur

**Title**

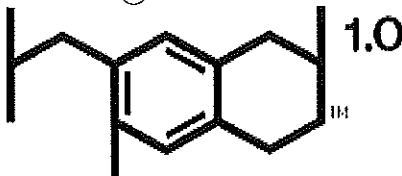
President

**Phone**

707 769 0661

**Email**

transmin@sonic.net



Health Product  
DECLARATION

**Description**

NHL stands for Natural Hydraulic Lime per European Standard EN-459-2. In the US, it is defined the ASTM Standard C-141 and called Hydrated Hydraulic Lime or HHL. It is classified in 3 categories, depending on its hydraulicity: NHL 2, NHL 3.5 and NHL 5.

It comes as a dry powder and is mixed with sand and water to create a mortar which is used for plaster or masonry.

Additional MasterFormat: 04.05.13

The manufacturer of this product is Chaux et Enduits de Saint-Astier and is located in Saint-Astier, 24110 France.

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**Release Date**

2013-03-18

**Expiry Date**

2016-03-18

**HPD URL**

<http://hpd.pharosproject.net/uploads/files/hpds/17/16-20130318135244.pdf>

Self-declared

Second Party  Third Party

**Certifier****Certificate #**

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**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 (10,000 ppm)  not disclosed  other

**Full Disclosure of Intentional Ingredients**

Yes

No

**Full Disclosure of Known Hazards**

Yes

No

**Notes**

The chemical analysis of the NHL 3.5 is as follows: SiO<sub>2</sub> : 16,5 to 18,5 % Al<sub>2</sub>O<sub>3</sub> : 1,5 to 2 % Fe<sub>2</sub>O<sub>3</sub> : 0,3 to 0,8% CaO : 57 to 60 % MgO : 1 to 1,5% SO<sub>3</sub> : 0,1 to 0,5% P<sub>2</sub>O<sub>5</sub> : <0,07 Na<sub>2</sub>O : 0,03 to 0,12 % K<sub>2</sub>O : 0,1 to 0,45 % TiO<sub>2</sub> : 0,02 to 0,1% MnO : 0,02 to 0,04% SrO : 0,05 to 0,1 CO<sub>2</sub> : 9 to 11 % H<sub>2</sub>O : 7 to 10 % The crystalline structures for the major parameters are: Ca(OH)<sub>2</sub> : 25 to 30 % CaO non combined : <0,3% CaCO<sub>3</sub> : 18 to 25 % C<sub>2</sub>S : 28 to 38% C<sub>3</sub>S : 2 to 6 % C<sub>3</sub>A : 0,1 to 0,8 % C<sub>2</sub>AS : 0,5 to 1,5 % C<sub>4</sub>AF : 0,2 to 0,7 % CaSO<sub>4</sub> : 0,5 to 0,9% This represents the average values to our best knowledge. The lime is a natural product which the simple result of burning in order to extract the CO<sub>2</sub>. It is a mineral product with 0 VOC. Even if the lime is composed of several elements, it is considered as a pure single product. CAS # 85117-09-5 EINECS # 285-561-1 REACH # 01-211 9475523-36-0006

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**Contents in Descending Order of Quantity**

CALCIUM OXIDE , CALCIUM CARBONATE , CALCIUM HYDROXIDE , CALCIUM OXIDE ,  
CALCIUM HYDROXIDE , CALCIUM CARBONATE , QUARTZ

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**Hazards****Highest concern GreenScreen score - 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)**

0.00

**Regulatory (g/L)**

0.00

**Does the product contain exempt VOCs?**

- N/A  
 Yes  
 No

**Are there VOC-free tints available?**

- N/A  
 Yes  
 No

**Notes**

Mineral pigments

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**Certifications + Compliance****VOC Emissions**

Not tested

**VOC Content**

Not tested

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
Hazard	Warnings					Notes
<b>CALCIUM OXIDE</b>	1305-78-8	40 - 70 %	U	N	N	Binder
None found	No warnings found on HPD Priority lists					Calcium oxide is the direct result of the burning of the limestone or calcium carbonate.
<b>CALCIUM CARBONATE</b>	471-34-1	10 - 30 %	U	N	N	Filler
None found	No warnings found on HPD Priority lists					Unburnt material
<b>CALCIUM HYDROXIDE</b>	1305-62-0	10 - 30 %	U	N	N	Binder
None found	No warnings found on HPD Priority lists					
<b>CALCIUM OXIDE</b>	1305-78-8	R	U			Unknown
None found	No warnings found on HPD Priority lists					

Name	CAS RN	% weight	GS	RC	Nano	Role
Hazard	Warnings					Notes
CALCIUM HYDROXIDE	1305-62-0	R	U			Unknown
None found	No warnings found on HPD Priority lists					
CALCIUM CARBONATE	471-34-1	R	U			Unknown
None found	No warnings found on HPD Priority lists					
QUARTZ	14808-60-7	R	BM1			Unknown
CANCER	IARC: Group 1: Agent is carcinogenic to humans - inhaled from occupational sources (also in NIOSH-C, MAK, NTP-RoC, Prop 65)					The European Regulation on Chemicals has published and imposed a set of regulations described in REACH (Registration, Evaluation, Authorization and restriction of CHEMical substances). Per NEPSI (European Network for Silica) recommendation, REACH formatted FDS (MSDS) does not list Crystalline Silica (Quartz) as a cancer risk in Saint-Astier NHL. The reason is that OEL (Occupational Exposure Limit) considers that exposure to a "maximum" breathable dust, at the time of mortar preparation, of less than 0.005mg of Crystalline Silica per m3 of air is NOT considered as a health risk

## 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	N/A			
VOC Content	Not tested			

Recycled  
Content

Not tested

2011-05-31 - 2013-05-31  
(EXPIRED)

[www.zoneverteexcell.com/fr/](http://www.zoneverteexcell.com/fr/)

The material was analysed to search for several known or suspected pollutants, which could alterate the quality of sensitive environments such as wine cellar, health facilities, living spaces, etc.

The analysis which have been performed did not lead to detect undesirable compounds in significant amounts.

## 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

Saint-Astier Natural Hydraulic Lime

This product is use on interior or exterior for plastering and masonry.

## NOTES

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