Protectosil Stone Sealer and Consolidation
by Evonik Corporation

CLASSIFICATION: 07 19 00

PRODUCT DESCRIPTION: Protectosil CHEM-TRETE BSM 400 brings you the next generation in silane technology. Our chemists have developed a pure silane that yields a water repellent with the longest service life available, unsurpassed performance on brick masonry and the lowest possible levels of volatile organic compounds. Protectosil CHEM-TRETE BSM 400 can be applied in the most extreme temperature conditions without changing the surface appearance of the substrate.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold Level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:

Characterized
- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

Screened
- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

Identified
- Yes Ex/SC
- Yes
- No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or one or more Special Condition did not follow guidance.

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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--- | --- | --- | --- | ---
PROTECTOSIL STONE SEALER AND CONSOLIDATION | WATER (PRIMARY CASRN IS 7732-18-5) | UNDISCLOSED | BM-4 | NoGS

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
No inventory or screening notes.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 390
Regulatory (g/l): 390
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: EPA Method 24 - Volatile Matter Content (EPA 24)
VOC content: ASTM D5095

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1 and Option 2

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #: 

SCREENING DATE: 2020-01-20
PUBLISHED DATE: 2020-01-20
EXPIRY DATE: 2023-01-20
Section 2: Content in Descending Order of Quantity

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 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

<table>
<thead>
<tr>
<th>PROTECTOSIL STONE SEALER AND CONSOLIDATION</th>
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</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD:</strong> 100 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES CONSIDERED:</strong> Yes</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES:</strong> FTIR is used in the quality control process to check for residual compounds in this product.</td>
</tr>
<tr>
<td><strong>OTHER PRODUCT NOTES:</strong></td>
</tr>
</tbody>
</table>
### WATER (PRIMARY CASRN IS 7732-18-5)

**ID:** 652133-48-7  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-01-20  
**%:** 90.00 - 100.00  
**GS:** BM-4  
**RC:** None  
**NANO:** No  
**ROLE:** Solvent  

**HAZARD TYPE**  
None found  

**AGENCY AND LIST TITLES**  
No warnings found on HPD Priority Hazard Lists  

**WARNINGS**  
None found  

**SUBSTANCE NOTES:**  
No Substance notes at this time

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### UNDISCLOSED

**ID:** 1310-58-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-01-20  
**%:** 3.00 - 10.00  
**GS:** NoGS  
**RC:** None  
**NANO:** No  
**ROLE:** Active Substance  

**HAZARD TYPE**  
None found  

**AGENCY AND LIST TITLES**  
No warnings found on HPD Priority Hazard Lists  

**WARNINGS**  
None found  

**SUBSTANCE NOTES:** Trade Secret CASRN# and Name not disclosed

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### POTASSIUM HYDROXIDE

**ID:** 1310-58-3  
**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-01-20  
**%:** 0.00 - 5.00  
**GS:** LT-P1  
**RC:** None  
**NANO:** No  
**ROLE:** Catalyst  

**HAZARD TYPE**  
SKIN IRRITATION  

**AGENCY AND LIST TITLES**  
EU - GHS (H-Statements)  

**WARNINGS**  
H314 - Causes severe skin burns and eye damage  

**SUBSTANCE NOTES:** No Substance notes at this time
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

| CERTIFYING PARTY: | Third Party | ISSUE DATE: | 2005-01-27 |
| CERTIFICATING PARTY: | Third Party | CERTIFIER OR LAB: | DL Laboratories |
| APPLICABLE FACILITIES: | All | ISSUE DATE: | 2005-01-27 |
| CERTIFICATE URL: | | CERTIFIER OR LAB: | DL Laboratories |

**EPA Method 24 - Volatile Matter Content (EPA 24)**

| CERTIFICATION AND COMPLIANCE NOTES: |

### VOC CONTENT

| CERTIFYING PARTY: | Third Party | ISSUE DATE: | 2005-01-27 |
| CERTIFICATING PARTY: | Third Party | CERTIFIER OR LAB: | DL Laboratories |
| APPLICABLE FACILITIES: | All | ISSUE DATE: | 2005-01-27 |
| CERTIFICATE URL: | |

**ASTM D5095**

| 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

No notes for this product at this time.
MANUFACTURER INFORMATION

MANUFACTURER: Evonik Corporation
ADDRESS: 2 Turner Pl
           Piscataway NJ 08854, USA
WEBSITE: www.protectosil.com

CONTACT NAME: Maxwell McCarthy
TITLE: Scientist
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EMAIL: maxwell.mccarthy@evonik.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

- AQU Aquatic toxicity
- CAN Cancer
- DEV Developmental toxicity
- END Endocrine activity
- EYE Eye irritation/corrosivity
- GEN Gene mutation
- GLO Global warming
- MAM Mammalian/systemic/toxicity
- MUL Multiple hazards
- NEU Neurotoxicity
- OZO Ozone depletion
- PBT Persistent Bioaccumulative Toxic
- PHY Physical Hazard (reactive)
- REP Reproductive toxicity
- RES Respiratory sensitization
- SKI Skin sensitization/irritation/corrosivity
- LAN Land Toxicity
- NF Not found on Priority Hazard Lists

GreenScreen (GS)

- BM-4 Benchmark 4 (prefer-safer chemical)
- BM-3 Benchmark 3 (use but still opportunity for improvement)
- BM-2 Benchmark 2 (use but search for safer substitutes)
- BM-1 Benchmark 1 (avoid - chemical of high concern)
- BM-U Benchmark Unspecified (insufficient data to benchmark)
- LT-P1 List Translator Possible Benchmark 1
- LT-1 List Translator Likely Benchmark 1
- LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
- NoGS Unknown (no data on List Translator Lists)

Recycled Types

- PreC Preconsumer (Post-Industrial)
- PostC Postconsumer
- Both Both Preconsumer and Postconsumer
- Unk Inclusion of recycled content is unknown
- None Does not include recycled content

Other Terms

- 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 for compliance with the HPD standard noted.