

HPD UNIQUE IDENTIFIER: 1742025880576

CLASSIFICATION: 07 19 16 Silane Water Repellents

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 | Threshold Level | Residuals/Impurities Evaluation | <i>For all contents above the threshold, the manufacturer has:</i> |
| <input type="radio"/> Nested Materials Method | <input checked="" type="radio"/> 100 ppm | <input checked="" type="radio"/> Completed | Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input checked="" type="radio"/> Basic Method | <input type="radio"/> 1,000 ppm | <input type="radio"/> Partially Completed | <i>Provided weight and role.</i> |
| Threshold Disclosed Per | <input type="radio"/> Per GHS SDS | <input type="radio"/> Not Completed | Screened <input checked="" type="radio"/> Yes <input type="radio"/> No |
| <input type="radio"/> Material | <input type="radio"/> Other | Explanation(s) provided : | <i>Provided screening results using HPDC-approved methods.</i> |
| <input checked="" type="radio"/> Product | | <input checked="" type="radio"/> Yes <input type="radio"/> No | Identified <input type="radio"/> Yes <input checked="" type="radio"/> No |
| | | | <i>Provided name and CAS RN or other identifier.</i> |

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.

PRODUCT | **MATERIAL OR SUBSTANCE** | *RESIDUAL OR IMPURITY*
GREENSCREEN SCORE | HAZARD TYPE
PROTECTOSIL CHEM-TRETE BSM 400 [**ALKYLTRIALKOXYSILANE**
LT-UNK | SKI]

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ...
None
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 colorants available that do not increase the VOC content of the base paint when tinted: 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 Option 1.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2023-10-26
PUBLISHED DATE: 2023-10-26
EXPIRY DATE: 2026-10-26

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 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

PROTECTOSIL CHEM-TRETE BSM 400

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: FTIR is used in the quality control process to check for residual compounds in this product.

OTHER PRODUCT NOTES:

ALKYLTRIALKOXYSILANE

ID: **Undisclosed**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2023-10-26 8:48:35**

%: **60.0000 - 100.0000**

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Sealant**

| HAZARD TYPE | LIST NAME AND SOURCE | WARNINGS |
|---------------------|---|--|
| SKI | EU - GHS (H-Statements) Annex 6 Table 3-1 | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2] |
| SKI | GHS - Australia | H315 - Causes skin irritation [Skin corrosion/irritation - Category 2] |
| ADDITIONAL LISTINGS | LIST NAME AND SOURCE | NOTIFICATION |
| None found | | No listings found on Additional Hazard Lists |

SUBSTANCE NOTES: CAS RN# not disclosed, alkyltrialkoxysilane, active material.

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 | EPA Method 24 - Volatile Matter Content (EPA 24) | |
|-------------------------------------|--|----------------------|
| CERTIFYING PARTY: Third Party | ISSUE DATE: 2005-01-27 00:00:00 | CERTIFIER OR LAB: DL |
| APPLICABLE FACILITIES: All | EXPIRY DATE: | Laboratories |
| CERTIFICATE URL: | | |
| CERTIFICATION AND COMPLIANCE NOTES: | | |

| VOC CONTENT | ASTM D5095 | |
|-------------------------------------|---------------------------------|----------------------|
| CERTIFYING PARTY: Third Party | ISSUE DATE: 2005-01-27 00:00:00 | CERTIFIER OR LAB: DL |
| APPLICABLE FACILITIES: All | EXPIRY DATE: | Laboratories |
| CERTIFICATE URL: | | |
| 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 Place**
Piscataway, NJ 08854
 COUNTRY: **USA**

WEBSITE: **www.protectosil.com**
 CONTACT NAME: **Christopher Hitcho**
 TITLE: **Scientist**
 PHONE: **8482150153**
 EMAIL: **christopher.hitcho@evonik.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

| | | |
|---------------------------------------|---|--|
| AQU Aquatic toxicity | LAN Land toxicity | PHY Physical hazard (flammable or reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive |
| DEV Developmental toxicity | MUL Multiple | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | NF Not found on Priority Hazard Lists | UNK Unknown |
| GEN Gene mutation | OZO Ozone depletion | |
| GLO Global warming | PBT Persistent, bioaccumulative, and toxic | |

GreenScreen (GS)

| | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-P1 List Translator Possible 1 (Possible Benchmark-1) |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-1 List Translator 1 (Likely Benchmark-1) |
| BM-2 Benchmark 2 (use but search for safer substitutes) | LT-UNK List Translator Benchmark Unknown |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | NoGS No GreenScreen. |
| BM-U Benchmark Unspecified (due to insufficient data) | |

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

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

