PROMATECT L-500
by Promat

SCREENING DATE: 2025-11-12
PUBLISHED DATE: 2025-11-13
EXPIRY DATE: 2028-11-12
PREPARER: Self-Prepared

Health Product Declaration v3.0
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 507513856
HPD UNIQUE PRODUCT ID: Not provided.
CLASSIFICATION: 07 82 13 Calcium-Silicate Board Fire Protection
PRODUCT DESCRIPTION: PROMATECT®-L500 is a non combustible low density calcium silicate board, used for the construction of fire resistant ducts, cladding of sheet metal ducts and to provide fire rated cable and service enclosures. PROMATECT®-L500 is off white in colour and has a smooth sanded surface on one face with a lightly honeycombed texture on the reverse face. PROMATECT®-L500 is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions. Performance characteristics are not degraded by age or moisture, and while untreated surfaces will absorb water which can cause some loss of strength full strength is regained after drying. It will not encourage mould growth and is resistant to attack by insect or vermin. PROMATECT®-L500 is chemically inert and is resistant to dilute acids and alkalis.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
→ Nested Materials Method

Threshold Disclosed Per
→ Product

Threshold Level
→ 1,000 ppm

Residuals/Impurities Evaluation
Completed in **1** of **1** Materials

Explanation(s) provided for Residuals/Impurities?
Yes

For all contents above the threshold, the manufacturer has:

Characterized No
Provided weight and role.

Screened No
Provided screening results using HPDC-approved methods.

Identified No
Provided name and CAS RN or other identifier.

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.

NESTED MATERIAL | **MATERIAL OR SUBSTANCE** | *RESIDUAL OR IMPURITY*
GREENSCREEN SCORE | HAZARD TYPE

CALCIUM SILICATE BOARD [CALCIUM SILICATE LT-UNK
CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE LT-UNK
QUARTZ BM-1 * | CAN | MAM | GEN **BENTONITE** LT-UNK **PULP, CELLULOSE** NoGS **POLYPROPYLENE** LT-UNK]

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:

Antimicrobial Pesticides Reporting: This product does not contain substance(s) that are intentionally added above the [Product - 1,000 ppm] threshold to act as antimicrobials.

Special Conditions applied: [Polymers]

Ingredient data was obtained directly from the Promat R&D team responsible for the development of PROMATECT®-L500. The formulation represents the current commercial composition of the product. All intentionally added substances present at 0.1 % (1000 ppm) by weight have been disclosed. Minor residuals and processing aids were assessed based on supplier SDSs and internal material specifications. Proprietary ingredients are described by functional class with concentration ranges consistent with HPD Open Standard guidance.

*Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. For this reason, this score is intentionally omitted from the "Contents highest concern" line above. See HPDC's Special Conditions policy for more information.

PFAS DETAILS:

This product does **not** contain intentionally added PFAS and materials or substances from suppliers are verified to **not** contain PFAS.

Attestation:

Marianna Z. Krzakiewicz

2025-11-10

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

COMPLIANCE ***See Section 3 for additional listings.***

VOC emissions: Eurofins Indoor Air Comfort GOLD - certified product
LCA: Environmental Product Declaration (EPD) by IBU (Arbeitsgemeinschaft Umweltverträgliches Bauprodukt E.V.(AUB)

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

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 3.0, available on the HPDC website at: www.hpd-collaborative.org/hpd-3-0-standard

CALCIUM SILICATE BOARD

%: 100.0000 - 100.0000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: A full evaluation of residuals and impurities was completed based on internal formulation data provided by the Promat R&D team. The calcium silicate board is composed primarily of mineral materials (calcium silicate hydrates, quartz, bentonite, and fibers). No residual or impurity constituents above the 0.1 % (1000 ppm) threshold were identified beyond those already listed in the inventory. Trace inorganic residues inherent to the manufacturing process are considered part of the stable mineral matrix.

OTHER MATERIAL NOTES: This material is a homogeneous calcium silicate fire protection board composed of silicate binders, mineral fillers, cellulose fibres and minor processing additives.

CALCIUM SILICATE

ID: **1344-95-2**

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

HAZARD SCREENING DATE: **2025-11-12 2:55:27**

%: **70.0000 - 95.0000** GreenScreen: **LT-UNK** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Calcium silicate is the main mineral phase forming the board matrix. It is generated hydrothermally from lime and silica in an aqueous slurry that is pressed into boards and dried. The matrix incorporates internal recycled production dust/offcuts from the finishing line reintroduced into the process (up to 2.8% by weight of this ingredient; varies by batch). In the finished product the substance is bound within an inert matrix. Stable under normal conditions of use; not present in nanoscale form. Potential exposure relates to dust generated during cutting or machining.

CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE

ID: **65997-17-3**

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

HAZARD SCREENING DATE: **2025-11-12 2:55:27**

%: **3.0000 - 7.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Tensile strength additive**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex V listing due to intrinsic safety

SUBSTANCE NOTES: Continuous filament glass fibers act as reinforcement to enhance strength and dimensional stability. Fibers are non-respirable and embedded within the matrix during manufacture. No recycled content for this ingredient. Stable under normal conditions of use; not present in nanoscale form. Potential exposure is limited to dust generated during cutting or machining of the board.

QUARTZ ID: **14808-60-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-12 2:55:28**

%: **0.0001 - 5.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen**
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route**
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)**
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man**
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources**
CAN	IARC	Group 1 - Agent is Carcinogenic to humans**
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen**
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]**
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]**
CAN	GHS - New Zealand	Carcinogenicity category 1**
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]**
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]**
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]**
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1**

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Quartz, present as silica sand, functions as a filler. It is incorporated into and bound within the calcium-silicate matrix during manufacture. No recycled content for this ingredient. Stable under normal conditions of use; not present in nanoscale form. Potential exposure relates to respirable dust generated during fabrication (e.g., cutting/drilling).

**Form-Specific Hazard: This substance's GreenScreen Benchmark or List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning. See HPDC's Special Conditions policy for more information. Manufacturer's Safety Data Sheet (SDS), if applicable, may offer occupational health and safety information.

BENTONITE

ID: **1302-78-9**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-12 2:55:28**

%: **0.0001 - 5.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Stabilizer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Bentonite functions as a rheology modifier/binder aid, supporting workability and strength during forming. It is incorporated into the calcium-silicate matrix. No recycled content for this ingredient. Stable under normal conditions of use; not present in nanoscale form. Potential exposure is limited to dust generated during fabrication.

PULP, CELLULOSE

ID: **65996-61-4**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-12 2:55:28**

%: **0.0001 - 4.0000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Tensile strength additive**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions Exempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES: Cellulose pulp provides fibrous reinforcement, improving handling and dimensional stability. Fibers are added to the slurry and become bound within the matrix. No recycled content for this ingredient. Stable under normal conditions of use; not present in nanoscale form. Potential exposure relates to dust generated during fabrication.

POLYPROPYLENE ID: **9003-07-0**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-11-12 02:55:27**

%: **0.0000 - 2.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** POLYMER ROLE: **Tensile strength additive**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

POLYMER TYPE: Thermoplastic

AVERAGE MOLECULAR WEIGHT : >10,000 Da

PERCENTAGE OF POLYMER WITH MOLECULAR WEIGHT LESS THAN 500 DA: Unknown

ADDITIONAL SUBSTANCES CONSIDERED: No

POLYMER NOTES: This polymer has been reported in accordance to HPDC Special Conditions Policy for polymers with disclosed CAS numbers.

ADDITIONAL NOTES: Substance Note: Polypropylene serves as a synthetic fibrous reinforcement/processing aid. Fibers are embedded in the matrix during manufacture and remain encapsulated in the finished board. No recycled content for this ingredient. Stable under normal conditions of use; not present in nanoscale form. Potential exposure relates to dust generated during cutting or machining. (Additives/residuals ≥ reporting threshold to be confirmed with supplier and reported elsewhere if applicable.)

Section 3: 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 — **Eurofins Indoor Air Comfort GOLD - certified product**

COMPLIANCE TYPE: Third-party certification
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: Institut Bauen und Umwelt e.V.
COMPLIANCE DETAILS:
COMPLIANCE SCOPE:
APPLICABLE FACILITIES: Tisselt, Belgium
COMPLIANCE URL: https://media.promat.com/pi782329/original/147301899/voc-iacg-508-01-01-2024b-promat-calcium-silicate_iac-gold-certificate_en.pdf
COMPLIANCE NOTES:

ISSUE DATE: 2024-10-16 **EXPIRY DATE:** 2029-09-27

LCA — **Environmental Product Declaration (EPD) by IBU (Arbeitsgemeinschaft Umweltverträgliches Bauprodukt E.V.(AUB)**

COMPLIANCE TYPE: Third-party certification
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: Institut Bauen und Umwelt e.V.
COMPLIANCE DETAILS:
COMPLIANCE SCOPE:
APPLICABLE FACILITIES: Tisselt, Belgium
COMPLIANCE URL: https://media.promat.com/pi687838/original/-2124144210/epd-promatect-l500-to-en15804-a1-standard-expiry-22-11-2026.pdf
COMPLIANCE NOTES:

ISSUE DATE: 2021-09-06 **EXPIRY DATE:** 2026-09-05

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.

PROMAT-GLUE K84
MANUFACTURER (OR GENERIC): **Promat (Etex)**

HPD URL: No HPD Available
ACCESSORY TYPE: Adhesive
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Inorganic, solvent-free water-glass adhesive used with PROMATECT®-L500 and other mineral boards; indoor use only; A1 non-combustible; no harmful fire emissions; water-soluble.

STEEL STAPLES
MANUFACTURER (OR GENERIC): **Generic**

HPD URL: No HPD Available
ACCESSORY TYPE: Fastener
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Steel staples used as auxiliary mechanical fasteners during installation.

Section 5: General Notes

This HPD for PROMATECT®-L500 is based on composition and process information provided by the R&D and manufacturing scientists who developed the product. The board is a calcium-silicate matrix produced by hydrothermal reaction of lime and silica in an aqueous slurry that is pressed into boards and dried. All trimmed and sanded production residues are recycled internally to the process; internal recycle applies only to the calcium-silicate matrix (batch-variable, reported in the calcium-silicate substance note). No intentionally added antimicrobials/biocides are present ≥1,000 ppm. Ingredients are incorporated into and bound within a largely mineral matrix; no intentionally engineered nanomaterials are present. Potential exposure is limited to dust generated during mechanical processing (e.g., cutting/drilling). This HPD covers the uncoated board at plant gate (packaging excluded) and uses a 1,000 ppm reporting threshold with the Nested Materials inventory method.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Promat**
ADDRESS: **Bormstraat 24**
Tisselt, Antwerp 2830
COUNTRY: **Belgium**

WEBSITE: **https://www.promat.com/en/construction/contact-us/locations/**
CONTACT NAME: **Bert Bergé**
TITLE: **Head of R&D Passive Fire Protection & High Temperature Insulation**
PHONE: **+32 15718271**
EMAIL: **bert.berge@etexgroup.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
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
LAN Land toxicity
MAM Mammalian/systemic/organ toxicity
MUL Multiple
NEU Neurotoxicity
NF Not found on Priority Hazard Lists
OZO Ozone depletion
PBT Persistent, bioaccumulative, and toxic
PHY Physical hazard (flammable or reactive)
REP Reproductive
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
UNK Unknown

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 (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown
NoGS No GreenScreen.

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

for compliance with the HPD standard noted.