

HPD UNIQUE IDENTIFIER: 25193

CLASSIFICATION: 07 21 00 Thermal Insulation

PRODUCT DESCRIPTION: Natur-Bois/Wood™ is a natural fiber batt insulation made of wood and hemp fibers for thermal insulation of residential and commercial buildings. It can be used to insulate ceilings, walls, floors and roofs. The hemp-wood fiber batt insulation is easily installed by inserting it manually so as to fill the volume between two sections of the frame. The Natur-Bois/Wood™ hemp-wood fiber batt insulation is produced using an innovative industrial process that gives it high mechanical resistance and stability that prevents subsidence in the long term.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i> Characterized <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No % weight and role provided for all substances except SC substances characterized according to SC guidance. Screened <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No All substances screened using Priority Hazard Lists with results disclosed except SC substances screened according to SC guidance. Identified <input checked="" type="radio"/> Yes Ex/SC <input type="radio"/> Yes <input type="radio"/> No All substances disclosed by Name (Specific or Generic) and Identifier except SC substances identified according to SC guidance.
<input checked="" type="radio"/> Nested Materials Method	<input checked="" type="radio"/> 100 ppm	Residuals/Impurities	
<input type="radio"/> Basic Method	<input type="radio"/> 1,000 ppm	Considered in 3 of 3 Materials	
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	Explanation(s) provided for Residuals/Impurities?	
<input type="radio"/> Material	<input type="radio"/> Other	<input checked="" type="radio"/> Yes <input type="radio"/> No	
<input checked="" type="radio"/> Product			

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

SC: BIO: HEMPFIBER [SC: HEMP FIBER Not Screened SC: HEMP SHIVES Not Screened] SC: BIO: WOODFIBER [SC: WOOD FIBER Not Screened] POLYESTER FIBER [POLYETHYLENE TEREPHTHALATE (PET) LT-UNK]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-UNK

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This HPD is build with a Nested Inventory and a product threshold of 100 ppm. All substances at or above the product threshold are included. Hemp and wood, biological substances, were entered following the Special Contidition of Biological Materials (SCBioMats/2018-02-23).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.2 (Section 01350/CHPS) - Not tested

Sustainable forestry: FSC Certification - Chain of Custody (COC)

Sustainable forestry: SFI Sustainable Forestry Initiative - Certified Fiber Sourcing

Sustainable forestry: SFI Sustainable Forestry Initiative - Certified Chain of Custody (COC)

CONSISTENCY WITH OTHER PROGRAMS

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

Third Party Verified?

Yes

PREPARER: Vertima

VERIFIER:

SCREENING DATE: 2021-06-30

PUBLISHED DATE: 2021-06-30

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

SC:BIO:HEMPFIBER

#: 46.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Plant-Based Fiber

RESIDUALS AND IMPURITIES NOTES: Defibration of hemp straw separates hemp fibre, hemp shives and dust. Up to 2% of Hemp shives are present with the hemp fiber. According to the manufacturer, no impurities are present in the hemp fiber.

OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial

SC:HEMP FIBER

ID: SC:Bio

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Not Screened

#: 98.0000 - 100.0000 GS: Not Screened RC: None NANO: No SUBSTANCE ROLE: Structure component

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: Cannabis Sativa L

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

SC:HEMP SHIVES

ID: SC:Bio

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: Not Screened

#: Impurity/Residual GS: Not Screened RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
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Hazard Screening not performed

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Plant-based materials

Identifier: Cannabis Sativa

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

SC:BIO:WOODFIBER

#: 46.0000

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES CONSIDERED: Yes MATERIAL TYPE: Wood Dust, Fiber or Chips

RESIDUALS AND IMPURITIES NOTES: According to the manufacturer, no residuals or impurities are present in the wood fiber.

OTHER MATERIAL NOTES: SpecialConditionApplied:BiologicalMaterial --- Wood fiber is prepared from wood chips coming from sawmill residues.

SC:WOOD FIBER

ID: **SC:Bio**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **Not Screened**

%: **100.0000** GS: **Not Screened** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Tree-based materials

Identifier: Picea mariana, Picea glauca, Picea rubens, Abies balsamea, Pinus strobus, Pinus banksiana, Pinus resinosa

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials. Wood fiber is produced from saw mill residues (wood chips).

POLYESTER FIBER

%: **8.0000**

PRODUCT THRESHOLD: **100 ppm** RESIDUALS AND IMPURITIES CONSIDERED: **Yes** MATERIAL TYPE: **Polymeric Material**

RESIDUALS AND IMPURITIES NOTES: According to the supplier, no residues or impurities are present in the product.

OTHER MATERIAL NOTES:

POLYETHYLENE TEREPHTHALATE (PET)

ID: **25038-59-9**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-06-30 5:43:22**

%: **100.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: PET used for fibers is called polyester.

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	CDPH Standard Method V1.2 (Section 01350/CHPS) - Not tested		
CERTIFYING PARTY: Self-declared APPLICABLE FACILITIES: Val des Sources, Quebec, Canada CERTIFICATE URL: CERTIFICATION AND COMPLIANCE NOTES:	ISSUE DATE: 2021-06-10	EXPIRY DATE:	CERTIFIER OR LAB: n/a
SUSTAINABLE FORESTRY	FSC Certification - Chain of Custody (COC)		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: S.E.C. Stadacona WB (Quebec (QC), Canada), S.E.C. Papier Masson WB (Gatineau (QC), Canada), S.E.C. FF Soucy WB (Rivière-du-Loup (QC), Canada), White Birch Paper Company (Greenwich (CT), USA). CERTIFICATE URL: https://info.fsc.org/details.php?id=a0240000005saRwAAI&type=certificate#result CERTIFICATION AND COMPLIANCE NOTES: Wood supplier certification. License Code: FSC-C028843. Certificate Code: BNQ-COC-590531.	ISSUE DATE: 2021-02-16	EXPIRY DATE: 2024-11-17	CERTIFIER OR LAB: Bureau de normalisation du Québec (BNQ)
SUSTAINABLE FORESTRY	SFI Sustainable Forestry Initiative - Certified Fiber Sourcing		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: S.E.C. Stadacona WB (Quebec (QC), Canada), S.E.C. Papier Masson WB (Gatineau (QC), Canada), S.E.C. FF Soucy WB (Rivière-du-Loup (QC), Canada) CERTIFICATE URL: https://sfidatabase.org/mod-cert/item/85984-bnq-sfi-58918-1 CERTIFICATION AND COMPLIANCE NOTES: Wood supplier certification. Certificate Code: BNQ-SFI-58918-1.	ISSUE DATE: 2020-02-26	EXPIRY DATE: 2025-02-26	CERTIFIER OR LAB: Bureau de normalisation du Québec (BNQ)
SUSTAINABLE FORESTRY	SFI Sustainable Forestry Initiative - Certified Chain of Custody (COC)		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: S.E.C. Stadacona WB (Quebec (QC), Canada), S.E.C. Papier Masson WB (Gatineau (QC), Canada), S.E.C. FF Soucy WB (Rivière-du-Loup (QC), Canada), White Birch Paper Company (Greenwich (CT), USA). CERTIFICATE URL: https://sfidatabase.org/mod-cert/item/85985-bnq-coc-sfi-58920-1 CERTIFICATION AND COMPLIANCE NOTES: Wood supplier certification. Certification Code: BNQ-COC-SFI-58920-1.	ISSUE DATE: 2020-02-26	EXPIRY DATE: 2025-02-26	CERTIFIER OR LAB: Bureau de normalisation du Québec (BNQ)
SUSTAINABLE FORESTRY	PEFC International Sustainability Benchmark - from sustainably managed forests (Chain of Custody from US & Canadian sources only)		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: S.E.C. Stadacona WB (Quebec (QC), Canada), S.E.C. Papier Masson WB (Gatineau (QC), Canada), S.E.C. FF Soucy WB (Rivière-du-Loup (QC), Canada), White Birch Paper Company (Greenwich (CT), USA) CERTIFICATE URL: https://sfidatabase.org/mod-cert/item/85854-bnq-coc-pefc-59318 CERTIFICATION AND COMPLIANCE NOTES: Wood supplier certification. Certification Code: BNQ-COC-PEFC-59318.	ISSUE DATE: 2020-02-26	EXPIRY DATE: 2025-02-26	CERTIFIER OR LAB: Bureau de normalisation du Québec (BNQ)

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

MANUFACTURER INFORMATION

MANUFACTURER: Nature fibres Inc.
ADDRESS: 385 Industrial Blvd.
Val des Sources Quebec J1T 4T7, Canada
WEBSITE: www.naturefibres.com

CONTACT NAME: Michel Provencher
TITLE: General director
PHONE: 819-716-0141
EMAIL: michel.provencher@naturefibres.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-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
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)	

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.