

HPD UNIQUE IDENTIFIER: 26469789918208

CLASSIFICATION: 07 21 29 Sprayed Insulation

PRODUCT DESCRIPTION: BoSpray is a spray-applied, acoustic insulation system tailored to meet the acoustic (NRC), and design objectives for a wide range of project types. BoSpray is applied to common construction substrates and can adhere to complex or irregular surfaces, including domes. BoSpray is class A rated and serves as an exposed, interior finish, requiring no additional coatings or materials. BoSpray cellulose fibers are manufactured in Europe from 80% recycled materials and applied utilizing BoBinder - a zero-VOC, water-based adhesive. This HPD covers all components of the BoSpray Acoustical System, including the treated cellulose fibers and adhesive. Also includes 09 83 00 Acoustic Finishes.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

<b>Inventory Reporting Format</b>	<b>Threshold Level</b>	<b>Residuals/Impurities Evaluation</b>	<i>For all contents above the threshold, the manufacturer has:</i>
<input checked="" type="radio"/> Nested Materials Method	<input checked="" type="radio"/> 100 ppm	Completed in 2 of 2 Materials	<b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Basic Method	<input type="radio"/> 1,000 ppm	<b>Explanation(s) provided for Residuals/Impurities?</b>	<i>Provided weight and role.</i>
<b>Threshold Disclosed Per</b>	<input type="radio"/> Per GHS SDS	<input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other		<i>Provided screening results using HPDC-approved methods.</i>
<input checked="" type="radio"/> Product			<b>Identified</b> <input checked="" type="radio"/> Yes <input 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.

**NESTED MATERIAL** | **MATERIAL OR SUBSTANCE** | *RESIDUAL OR IMPURITY*

**GREENSCREEN SCORE** | HAZARD TYPE

**BOBINDER** [ **WATER (PRIMARY CASRN IS 7732-18-5)** **BM-4**  
**POLYVINYL ALCOHOL (PRIMARY CASRN IS 9002-89-5)** **LT-UNK**]  
**BOFIBER** [ **MAGNESIUM SULFATE, 7-HYDRATE** **LT-UNK** **BORIC ACID**  
**LT-1** | END | DEV | REP | MUL | MAM | EYE | SKI **MIXED RECYCLED PAPER** ]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-1

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

Special Conditions applied: [MixedRecycledContent]

Special Conditions applied: [MixedRecycledContent]

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

Material (g/l): 0 Regulatory (g/l): 0

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: Emission Classification of Building Materials - M1

VOC content: EU Ecolabel - EU44 Indoor and outdoor paints and varnishes

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2024-02-09

PUBLISHED DATE: 2024-02-09

EXPIRY DATE: 2027-02-09

## 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](http://www.hpd-collaborative.org/hpd-2-3-standard)

### BOBINDER

%: 69.5000 - 70.0000

PRODUCT THRESHOLD: 100 ppm    RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes    MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier documentation and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES:

#### WATER (PRIMARY CASRN IS 7732-18-5)

ID: 1371582-34-1

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-02-09 9:15:57

%: 95.5000 - 96.0000

GreenScreen: BM-4

RC: None

NANO: No

SUBSTANCE ROLE: Diluent

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:

#### POLYVINYL ALCOHOL (PRIMARY CASRN IS 9002-89-5)

ID: 875587-24-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2024-02-09 9:15:57

%: 4.0000 - 4.5000

GreenScreen: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Adhesive

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:

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Wood Dust, Fiber or Chips

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier documentation and as predicted by process chemistry (Pharos CML).

OTHER MATERIAL NOTES:

**MIXED RECYCLED PAPER**ID: **Mixed Recycled Content**HAZARD DATA SOURCE: **HPDC Special Conditions Policy**%: **79.5000 - 80.0000**GreenScreen: **Not Required**RC: **Both**NANO: **No**MATERIAL ROLE: **Insulator**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

Hazard Screening is not applicable to this Special Condition

INGREDIENT DESCRIPTION: Cellulose Fiber

ANALYTICAL TESTING: DIN EN ISO 9000/14000, DIN EN 15251, and REACH 1907/2006 (IQUH)

BATCH VARIATION: Yes, Because the material consist out of recycled material there can be some color variation

COUNTRY OF ORIGIN: Europe

MATERIAL CONTENT NOTES: This disclosure does not provide information on the potential presence of hazardous substances which may be found in certain mixed recycled materials.

**MAGNESIUM SULFATE, 7-HYDRATE**ID: **10034-99-8**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-02-09 9:15:57**%: **14.5000 - 15.0000**GreenScreen: **LT-UNK**RC: **None**NANO: **No**SUBSTANCE ROLE: **Flame retardant**

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:

**BORIC ACID**ID: **10043-35-3**HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**HAZARD SCREENING DATE: **2024-02-09 9:15:57**%: **5.0000 - 5.5000**GreenScreen: **LT-1**RC: **None**NANO: **No**SUBSTANCE ROLE: **Flame retardant**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
DEV	MAK	Pregnancy Risk Group B
REP	EU - Annex VI CMRs	Reproductive Toxicity - Category 1B
MUL	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
END	EU - Priority Endocrine Disruptors	Category 1 - In vivo evidence of Endocrine Disruption Activity
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
REP	GHS - Australia	H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]
REP	EU - GHS (H-Statements) Annex 6 Table 3-1	H360FD - May damage fertility. May damage the unborn child [Reproductive toxicity - Category 1A or 1B]
MAM	GHS - Japan	H335 - May cause respiratory irritation [Specific target organ toxicity - Single exposure - Category 3]
EYE	GHS - New Zealand	Eye irritation category 2
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
REP	GHS - New Zealand	Reproductive toxicity category 2
REP	EU - SVHC List	Toxic to reproduction - Candidate list
REP	EU - SVHC List	Toxic to reproduction - Prioritized for listing
REP	EU - REACH Annex XVII CMRs	Reproductive toxicants: Category 1B
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List  Antimicrobials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Formulated Consumer Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CP II)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products

SUBSTANCE NOTES:

## 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

### Emission Classification of Building Materials - M1

CERTIFYING PARTY: Third Party

ISSUE DATE: 2021-12-17 00:00:00

CERTIFIER OR LAB:

APPLICABLE FACILITIES: all

EXPIRY DATE:

Servaco/Normec product testing

CERTIFICATE URL: <https://normecservaco.com/>

CERTIFICATION AND COMPLIANCE NOTES: The following test methods were used: • Test chamber was operated according to NBN EN 16516:2017+A1:2020 (ISO 16000-9 with extra clauses): Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air (internal procedure QM001) • Analysis of TENAX samples was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-6 with extra clauses): Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air (internal procedure QM002) • Analysis of DNPH cartridges was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-3): Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air (internal procedure QM003) • The test sample preparation was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-11 with extra clauses): Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air (internal procedure QM001) • Ammonia testing was performed according to NBN EN 16516:2017+A1:2020 (ISO 16000-11 with extra clauses): Construction products – Assessment of release of dangerous substances – Determination of emissions into indoor air: sampling using impingers containing diluted sulphuric acid and spectrophotometric analysis of the liquid ammonia samples according to ISO 7150-1. • Odour testing was performed according to ISO 16000-28 (option acceptance): Indoor air - Part 28: Determination of odour emissions from building products using test chambers. The odour emission is measured using a sensory odour panel.

### VOC CONTENT

### EU Ecolabel - EU44 Indoor and outdoor paints and varnishes

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2024-02-07 00:00:00

CERTIFIER OR LAB: hullenberg

APPLICABLE FACILITIES: all

EXPIRY DATE:

weg 278

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

BoSPray is the natural choice for new construction, renovation and historic preservation projects. BoSPray is sprayed in place, filling cracks, seams, and voids to form a monolithic coating over the substrate helping to reduce air infiltration.

Superior acoustical performance is measured using the room reverberation method per ISO 354 to calculate a noise reduction coefficient (NRC).

BoSPray absorbs sound energy instead of reflecting it, effectively reducing reverberation time and making it the perfect solution for noisy environments like restaurants, entertainment venues, or open-office plans.

**MANUFACTURER INFORMATION**

MANUFACTURER: **Bowiq North America LLC**  
 ADDRESS: **Coastal Highway**  
**Milton, Delaware 19968**  
 COUNTRY: **United States**  
 LATITUDE: **-75.2117000**  
 LONGITUDE: **38.7651000**

WEBSITE: **www.bowiq.com**  
 CONTACT NAME: **Steven Rijkaard**  
 TITLE: **Director**  
 PHONE: **+1 302 703 7600**  
 EMAIL: **info@bowiq.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**

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

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> No GreenScreen.
<b>BM-U</b> 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](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://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.*