

HPD UNIQUE IDENTIFIER: 24036

CLASSIFICATION: 07 21 13 Board Insulation

PRODUCT DESCRIPTION: CURTAINROCK® RFF is a lightweight, semi-rigid stone wool insulation board with a reinforced foil facer, designed specifically for use in curtain wall systems. It is especially suited for backpan applications, aesthetics behind glass or as a vapor barrier when required. Rockwool™ is part of Rockwool International A/S, also known as Rockwool Group.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Table with 4 columns: Inventory Reporting Format, Threshold level, Residuals/Impurities, and All Substances Above the Threshold Indicated Are. Includes options for reporting methods, thresholds, and screening results.

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®.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY GREENSCREEN SCORE | HAZARD TYPE STONE WOOL INSULATION, EXTERIOR PRODUCTS (FACED): CURTAINROCK® RFF [STONE WOOL, BIOSOLUBLE LT-UNK POLYETHYLENE LT-UNK PHENOL, POLYMER WITH FORMALDEHYDE LT-P1 | RES SYRUPS, HYDROLYZED STARCH NoGS ALUMINUM BM-1 | END | RES | PHY UREA LT-UNK FIBERGLASS LT-UNK UNDISCLOSED LT-1]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This product is not considered identified due to the proprietary nature of some chemicals within the product's formulation.

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: Not Applicable LCA: Environmental Product Declaration

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes No

PREPARER: Self-Prepared

VERIFIER: VERIFICATION #:

SCREENING DATE: 2021-03-05

PUBLISHED DATE: 2021-03-05

EXPIRY DATE: 2024-03-05

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

STONE WOOL INSULATION, EXTERIOR PRODUCTS (FACED): CURTAINROCK® RFF

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities were considered following standard industry methods.

OTHER PRODUCT NOTES: This declaration is based on pre-cured breakdown of the material ingredients. A mixture of chemicals called binder is applied on the stone wool fibers to adhere them together. The liquid binder turns into solid after chemicals react during the curing process. Therefore, hazard warnings on the HPD might not be applicable as the physical state of a chemical changes during the curing process.

STONE WOOL, BIOSOLUBLE

ID: 65997-17-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-03-05

#: 95.0000 - 100.0000 GS: LT-UNK RC: PreC NANO: No SUBSTANCE ROLE: Structure component

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

SUBSTANCE NOTES: Stone wool products produced by ROCKWOOL are continually monitored and are in fulfilment of the CLP regulation Annex VI Note Q conditions (stone wool can also be referenced by the EC Number: 926-099-9).

The pre-consumer recycled content comes primarily from recycled slag.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

POLYETHYLENE

ID: 9002-88-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-03-05

#: 0.0000 - 2.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Adhesive

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

SUBSTANCE NOTES: Forms part of the RFF facer.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

PHENOL, POLYMER WITH FORMALDEHYDE

ID: 9003-35-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2021-03-05

#: 0.0000 - 5.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Binder

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Forms part of the binder which adheres the fibres in the final product.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

SYRUPS, HYDROLYZED STARCH

ID: 8029-43-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-03-05**

#: **0.0000 - 1.0000** GS: **NoGS** 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: Forms part of the binder which adheres the fibres in the final product.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

ALUMINUM

ID: 7429-90-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-03-05**

#: **0.0000 - 1.0000** GS: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Insulator**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
RES	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced
PHY	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases
PHY	EU - GHS (H-Statements)	H228 - Flammable solid

SUBSTANCE NOTES: Forms part of the RFF facer.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

UREA

ID: 57-13-6

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-03-05**

#: **0.0000 - 1.0000** 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: Forms part of the binder which adheres the fibres in the final product.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

FIBERGLASS

ID: 65997-17-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2021-03-05**

#: **0.0000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

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

SUBSTANCE NOTES: Forms part of the RFF facer.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

UNDISCLOSED

ID: **Undisclosed**

HAZARD SCREENING METHOD: **Toxnot Chemical Hazard Screening Library** HAZARD SCREENING DATE: **2021-03-05**

#: **0.0000 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Dedusting**

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

SUBSTANCE NOTES: A de-duster oil used to control and reduce dust. The de-duster oil is considered proprietary by the manufacturer.

The percent by weight of the substance is disclosed as a range to account for variances across the products covered by this HPD.

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	Not Applicable		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2021-01-	EXPIRY DATE:	CERTIFIER OR LAB: Not Applicable
APPLICABLE FACILITIES: Grand Forks, British Columbia, Canada; Milton, Ontario, Canada; and Marshall County, Mississippi, USA	19		
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: Curtainrock® RFF, Curtainrock® 40 RFF, and Curtainrock® 80 RFF have not been tested for compliance with CDPH Standard Method V1.2 (Section 01350/CHPS).			

LCA	Environmental Product Declaration		
CERTIFYING PARTY: Third Party	ISSUE DATE: 2019-07-	EXPIRY DATE: 2024-	CERTIFIER OR LAB: UL
APPLICABLE FACILITIES: Grand Forks, British Columbia, Canada; Milton, Ontario, Canada; and Marshall County, Mississippi, USA	17	06-17	Environment
CERTIFICATE URL: https://www.rockwool.com/siteassets/o2-rockwool/documentation/epd/rockwool-stone-wool-environmental-product-declaration-epd.pdf#			
CERTIFICATION AND COMPLIANCE NOTES: The environmental impact reference product was SAFE'n'SOUND®. To calculate product-specific environmental impacts of the products covered by this HPD, apply the relevant scaling factor found on page 3 of the EPD (as well as the environmental impact factor for faced materials, if applicable, which can be found in the Annex of the EPD).			

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

This HPD covers the following products: Curtainrock® RFF, Curtainrock® 40 RFF, and Curtainrock® 80 RFF. These products have the same compositional chemistry, except at different percent by weights. This variance is limited to 10% or less of the total mass of each product.

MANUFACTURER INFORMATION

MANUFACTURER: ROCKWOOL Inc.
ADDRESS: 8024 Esquesing Line
 Milton Ontario L9T 6W3, Canada
WEBSITE: rockwool.com

CONTACT NAME: Alejandra Nieto
TITLE: Technical Manager - Sustainability & Research
PHONE: 1-800-265-6878
EMAIL: alejandra.nieto@rockwool.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.