

CLASSIFICATION: 23 07 13 Duct Insulation

PRODUCT DESCRIPTION: Owens Corning® QuietR® Rotary Duct Liner absorbs noise within sheet metal ducts, and contributes to indoor comfort by lowering heat loss or gain through duct walls. Owens Corning® QuietR® Duct Liner HD-Roll is a high density roll designed to be installed inside sheet metal ductwork or plenums with metal fasteners and adhesives. Both products are fiberglass based product have the smooth, fire-resistant airstream surface resists damage during installation and in service. This HPD does cover both product lines.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided
for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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

QUIETR® ROTARY DUCT LINER / DUCT LINER HD-ROLL [FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤18 % BY WEIGHT **LT-UNK UREA PHENOL FORMALDEHYDE (CURED PUF RESIN) **LT-UNK** GLASS FILAMENTS **NoGS** UNDISCLOSED **LT-1** | PBT | CAN | MUL **UNDISCLOSED** **LT-UNK** **UNDISCLOSED** **NoGS** **UNDISCLOSED** **BM-2** | RES **UNDISCLOSED** **LT-1** | CAN]**

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

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

INVENTORY AND SCREENING NOTES:

All the contents of our final product (QuietR® Rotary Duct Liner and QuietR® Duct Liner HD-Roll) that are down to 1000ppm are disclosed in this HPD. There is one substance (max of 0.5%) is not included in this HPD disclosure due to no available CAS. Based on the MSDS from the manufacture, it is a non-hazardous material. The HPD will be updated when there is any updates from the manufacture can be found out.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: UL/GreenGuard Certified

VOC emissions: UL/GreenGuard Gold Certified

Recycled content: SCS Recycled Content Certification - Recycling Programs

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-06-13

PUBLISHED DATE: 2018-06-14

EXPIRY DATE: 2021-06-13



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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

QUIETR® ROTARY DUCT LINER / DUCT LINER HD-ROLL

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: To the best of our knowledge, all chemicals presented at ≥ 1000 ppm on the final product have been considered and disclosed. However, minerals used in manufacturing of glass fiber, might contain trace level of impurities.

OTHER PRODUCT NOTES: A mixture of chemicals called binder is applied on the glass fiber to protect the glass surface and adhere the fibers together. Liquid form of the binder turns into solid form after chemicals react during the curing process. That means hazard warning on HPD might not be applicable as the physical state of a chemical changes during the curing process.

FIBER GLASS, BIOSOLUBLE AND/OR WITH ALKALINE OXIDE AND ALKALI EARTH OXIDE CONTENT ≤ 18 % BY WEIGHT

ID: 65997-17-3

#: 70.0000 - 90.0000	GS: LT-UNK	RC: Both	NANO: No	ROLE: Thermal/Acoustic insulation
----------------------	------------	----------	----------	-----------------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Owens Corning instituted internal systems to assure continuous production of acceptable glasses based on state-of-the-art understanding of biosolubility. As a result of those steps, all the fiberglass and mineral wool insulations we sell, anywhere in the world, are continuously evaluated to assure that they are biosoluble, fulfilling the Note Q condition of the European Commission Directive 97/69/EC, and therefore do not present a health risk.

UREA PHENOL FORMALDEHYDE (CURED PUF RESIN)

ID: 25104-55-6

#: 10.0000 - 20.0000	GS: LT-UNK	RC: None	NANO: No	ROLE: Binder
----------------------	------------	----------	----------	--------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The cured binder is the main component of the binder that holds fiberglass together and protects the glass surface.

GLASS FILAMENTS

ID: Not registered

#: 1.0000 - 10.0000	GS: NoGS	RC: None	NANO: No	ROLE: Airstream Surface
---------------------	----------	----------	----------	-------------------------

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The continuous filament glass fiber used in this product has a diameter larger than 6 microns, fulfilling the Note R condition of the European Commission Directive 97/69/EC. These continuous filament glass cannot be inhaled into the lower lung and have never been associated with any chronic lung disease.

UNDISCLOSED%: **0.1000 - 2.0000**GS: **LT-1**RC: **None**NANO: **No**ROLE: **Dedusting agent**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans
CANCER	EU - GHS (H-Statements)	H350 - May cause cancer
CANCER	EU - REACH Annex XVII CMRs	Carcinogen Category 2 - Substances which should be regarded as if they are Carcinogenic to man
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant
CANCER	EU - Annex VI CMRs	Carcinogen Category 1B - Presumed Carcinogen based on animal evidence
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: The agent that is used to reduce the dust.

UNDISCLOSED%: **0.1000 - 1.0000**GS: **LT-UNK**RC: **None**NANO: **No**ROLE: **Catalyst**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The chemical that helps speed up the binder curing reaction that is incorporated into the binder.

UNDISCLOSED%: **0.1000 - 2.0000**GS: **NoGS**RC: **None**NANO: **No**ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The binder used to make the veil that is used as airstream surface.

UNDISCLOSED

%: **0.1000 - 1.0000**

GS: **BM-2**

RC: **None**

NANO: **No**

ROLE: **Binder**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

SUBSTANCE NOTES: The fire retardant is added to the veil binder to meet the required fire codes. It is incorporated into the matrix and shall not be released under normal use conditions.

UNDISCLOSED

%: **0.0100 - 0.5000**

GS: **LT-1**

RC: **None**

NANO: **No**

ROLE: **Dye**

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: The chemical used to make the color of the final product. It is incorporated into the matrix and shall not be released under normal use conditions.

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

UL/GreenGuard Certified

CERTIFYING PARTY: **Third Party**

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **OC Mexico City, Mexico**

2007-07-09

Environment

CERTIFICATE URL:

<https://spot.ulprospector.com/en/na/BuiltEnvironment/search?k=Owens+Corning&st=1>

CERTIFICATION AND COMPLIANCE NOTES: **GREENGUARD Certification 4005-410**

VOC EMISSIONS

UL/GreenGuard Gold Certified

CERTIFYING PARTY: **Third Party**

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB: **UL**

APPLICABLE FACILITIES: **OC Mexico City, Mexico**

2007-07-09

Environment

CERTIFICATE URL:

<https://spot.ulprospector.com/en/na/BuiltEnvironment/search?k=Owens+Corning&st=1>

CERTIFICATION AND COMPLIANCE NOTES: **GREENGUARD Certification 4005-420 (For products with R value <6)**

RECYCLED CONTENT

SCS Recycled Content Certification - Recycling Programs

CERTIFYING PARTY: **Third Party**

ISSUE

EXPIRY

CERTIFIER OR

APPLICABLE FACILITIES: **OC Mexico City, Mexico**

DATE:

DATE:

LAB: **SCS**

CERTIFICATE URL:

<https://dcpd6wotaa0mb.cloudfront.net/mdms/dms/Sustainability/10021333/10021333-SCS-Certificates-SCS-MC-02066-53-percent.pdf>

2018-

2019-

Global

03-25

03-31

CERTIFICATION AND COMPLIANCE NOTES: **Conforms to the SCS Recycled Content Standard V7-0 for an Average 53% with Minimum 22% Post- Consumer and Balance 31% Pre-Consumer Recycled Glass Content. Material quantification is based on a plant-wide weighted average.**

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

The health warning is automatically applied through the HPD 2.1 software. It does not apply to the specific situation

of the ingredients in our product (for example, the form of the ingredient is not considered via the software screening).



MANUFACTURER INFORMATION

MANUFACTURER: **Owens Corning**
ADDRESS: **1 Owens Corning Parkway**
Toledo Ohio 43659, USA
WEBSITE: **www.owenscorning.com**

CONTACT NAME: **Jiafan Wang, Ph.D.**
TITLE: **Environmental Toxicologist**
PHONE: **800-GET-TECH**
EMAIL: **Sustainability@owenscorning.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

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.