



INNOVATIONS FOR LIVING.™

Material Name: QuietR™ Acoustic Duct Liner, Duraflex® II
MSDS No: 15-MSD- 101074-01-A

Material Safety Data Sheet

*** Section 1 - Chemical Product and Company Identification ***

Product Name(s): QuietR™ Acoustic Duct Liner, Duraflex® II

Manufacturer:

Owens Corning
One Owens Corning Parkway, World Headquarters
Attn. Product Stewardship
Toledo, OH 43659, USA

Emergency Contacts:

Emergencies ONLY (after 5pm ET and weekends): 1-419-248-5330,
CHEMTREC (24 hours everyday): 1-800-424-9300,
CANUTEC (Canada - 24 hours everyday): 1-613-996-6666.

Health and Technical Contacts:

Health Issues Information (8am-5pm ET): 1-800-GET-PINK,
Technical Product Information (8am-5pm ET): 1-800-GET-PINK.

*** Section 2 – Composition / Information on Ingredients ***

CAS #	Component	Percent by Wt.
65997-17-3	Fibrous Glass (continuous filament) (non-respirable)*	75-85
25104-55-6	Urea, Polymer of phenol and formaldehyde	4-7
1344-28-1	Hydrated Alumina	0-1
N/A	Hydrocarbon Polymers	0-1

*As manufactured continuous filament glass fibers are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards. See section 8 of Material Safety Data Sheet for exposure limit data.

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: glass wool fiber, fibrous glass and nuisance particulates.

Component Information/Information on Non-Hazardous Components

No additional information available.

*** Section 3 - Hazard Identification ***

Appearance and Odor:

QuietR™ Acoustic Duct Liner - Black fibrous glass insulation product with black vinyl/acrylic coating on one side.
Duraflex® II - Black fibrous glass insulation product

Emergency Overview Fire may cause hydrogen chloride and ammonia to be released from this product.



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Potential Acute Health Effects

Inhalation:

Dusts and fibers from this product may cause mechanical irritation of the nose, throat, and respiratory tract.

Skin Contact:

Dusts and fibers from this product may cause temporary mechanical irritation to the skin.

Eye Contact:

Dusts and fibers from this product may cause temporary mechanical irritation to the eyes.

Ingestion:

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Medical Conditions Aggravated by Exposure:

Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.

Chronic Conditions:

See Section 11 for additional information.

This material is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)

*** Section 4 - First Aid Measures ***

Inhalation:

If inhaled, remove the affected person to fresh air. If irritation persists get medical attention.

Skin Contact:

For skin contact, wash with soap and running water. Use a washcloth to help remove fibers. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibers into the skin. If irritation persists get medical attention.

Never use compressed air to remove fibers from the skin. If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin.

Eye Contact:

Immediately flush eyes with water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:

Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that partial or complete intestinal obstruction does not occur. Do not induce vomiting unless directed to do so by medical personnel.

*** Section 5 - Fire Fighting Measures ***

Flash Point: None

Flash Point Method: Not applicable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Flammability Classification: Non-flammable

Extinguishing Media:

Dry chemical, foam, carbon dioxide, or water fog.

Unusual Fire & Explosion Hazards:

This product may release hydrogen chloride and ammonia in a fire. Evacuate building immediately if this occurs.

Fire-Fighting Instructions:

In a sustained fire use self-contained breathing apparatus (SCBA) and full bunker turnout gear.



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Hazardous Combustion Products:

Primary combustion products are nitrogen oxide, carbon monoxide, carbon dioxide, ammonia, hydrogen chloride and water. Other undetermined compounds could be released in small quantities.

*** Section 6 - Accidental Release Measures ***

Containment Procedures:

This material will settle out of the air. If concentrated on land, it can then be scooped up for disposal as a non-hazardous waste. This material will sink and disperse along the bottom of waterways and ponds. It cannot easily be removed after it is waterborne; however, the material is non-hazardous in water.

Clean-Up Procedures:

Scoop up material and put into a suitable container for disposal as a non-hazardous waste.

Special Procedures:

None.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Keep product in its packaging until use to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap material. Wear PPE as described in Section 8. Follow good industrial hygiene practices when handling this material.

Storage Procedures:

No special procedures.

*** Section 8 – Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

ACGIH and OSHA exposure limit lists have been checked for those components with CAS registry numbers.

Fiber Glass Continuous Filament (65997-17-3)

Ingredient	OSHA PEL (8-hr TWA)	ACGIH TLV (8-hr TWA)
Non-respirable fibers and particulate	15 mg/m ³ (total dust) (a)	5 mg/m ³ (inhalable fraction)
Respirable particulate	5 mg/m ³ (respirable dust) (b)	None
Respirable particulate with fiber like dimensions (glass shards)	None Established	None Established

Hydrated Alumina (1344-28-1)

ACGIH: 10 mg/m³ (as Al)
OSHA: 15 mg/m³ (total dust); 5 mg/m³ (respirable dust)

Ventilation:

General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits. Dust collection systems should be used in operations involving cutting or machining and may be required in operations involving power tools.



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PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

A properly fitted NIOSH approved N 95 series disposable dust respirator or equivalent should be used when high dust levels are encountered, the level of glass fibers in the air exceeds the occupational exposure limits, or if irritation occurs.

Skin Protection:

Normal work clothing (long sleeved shirt, long pants, and gloves) is recommended. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers.

Eyes/Face Protective Equipment:

Wear safety glasses or goggles.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Black, fibrous insulation	Odor:	Organic
Physical State:	Solid	pH:	Not applicable
Vapor Pressure (mm Hg @ 20 C):	Not applicable	Vapor Density (Air=1):	Not applicable
Boiling Point:	Not applicable	Solubility (H2O):	Insoluble
Specific Gravity (Water=1):	Not applicable	Freezing Point:	Not applicable
Evaporation Rate (n-Butyl Acetate=1):	Not applicable	Viscosity:	Not applicable

Physical Properties: Additional Information

No additional information available.

*** Section 10 - Chemical Stability & Reactivity Information ***

Stability:

This is a stable material.

Conditions to Avoid:

None expected.

Incompatible Materials:

None expected.

Hazardous Decomposition Products:

None, except in fire. See section 5 of MSDS for combustion products statement.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Effects:

General Product Information

Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.



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Component Analysis - LD50/LC50

Urea, Polymer of phenol and formaldehyde (25104-55-6)

Oral LD 50 Rat: 7g/kg

Oral LD 50 Mouse: 7g/kg

Carcinogenicity:

Fiber Glass Continuous Filament: The International Agency for Research on Cancer (IARC) in June, 1987, and in October, 2001, categorized fiber glass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiber glass continuous filament as a confirmed, probable or even possible cancer causing material.

The TLV-TWA of 5 mg/m³ was adopted for nonrespirable glass filament fiber, measured as inhalable dust, to prevent mechanical irritation of the upper respiratory tract.

Component Carcinogenicity

Fiber Glass (Continuous Filament) (65997-17-3)

ACGIH: A4 – Not classifiable as a human carcinogen.

IARC: Group 3 “not classifiable as to its carcinogenicity to humans”
June 1987 and October 2001 meeting

Hydrated Alumina (1344-28-1)

ACGIH: A4 – Not classifiable as a human carcinogen.

*** Section 12 - Ecological Information ***

This product is not anticipated to harm animals, plants or fish.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions:

General Product Information

This product, if discarded, is not expected to be a characteristic hazardous waste under RCRA.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 – Transportation Information ***

US DOT Information

Shipping Name: Not regulated for transport.

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info: None



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TDG Information

Shipping Name: Not regulated for transport.

Hazard Class: None

UN/NA #: None

Packing Group: None

Required Label(s): None

Additional Info: None

Additional Transportation Regulations:

No additional information available.

*** Section 15 - Regulatory Information ***

US Federal Regulations:

General Product Information

No additional information available

Component Analysis

This material contains one or more of the following chemicals that are identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4). **NONE**

The following is provided to aide in the preparation of SARA Section 311 and 312 reports.

SARA 311/312

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Air Act

The following components appear on the Clean Air Act-1990 Hazardous Air Pollutants List: **NONE**

State Regulations:

General Product Information

No additional information available.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	MA	MN	NJ	PA
Fiber Glass Wool (Fibrous Glass) (related to mineral wool fiber)	65997-17-3	Yes	Yes	Yes	No	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulations:

General Product Information

No additional information available.



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Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Fiber Glass Wool (Fibrous Glass)	65997-17-3	Yes	Yes	Yes
Urea, polymer of phenol and formaldehyde	25104-55-6	Yes	Yes	Exempt
Hydrated Alumina	1344-28-1	Yes	Yes	Yes
Cured Acrylic Binder	None	Yes	Yes	N/A
Formaldehyde	50-00-0	Yes	Yes	Yes

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	
Fiber Glass	65997-17-3	1% Item 768 (884)

WHMIS Status: Uncontrolled

WHMIS Classification: Not applicable

*** Section 16 - Other Information ***

HMIS and NFPA Hazard Ratings:	Category	HMIS	NFPA
	Acute Health	1	2
	Flammability	0	0
	Reactivity	0	0

NFPA Unusual Hazards: None

HMIS Personal Protection: To be supplied by user depending upon use.



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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend:

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System; CAA = Clean Air Act

Revision Summary:

This MSDS has been revised and replaces 15-MSD-101074-01. Revisions have been made concerning WHMIS Classification. Read this information carefully.

Get OC MSDS electronically via Internet: <http://www.owenscorning.com> or by calling 1-800-GET-PINK.

This is the end of MSDS # 101074-01-A