Material Safety Data Sheet

Material Name: Foamular® Extruded Polystyrene Insulation **MSDS No.: 15-MSD- 21528-01-C**

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

Product Name(s): Foamular® 150, Foamular® 250, Foamular® 350, Foamular® 400, Foamular® 404, Foamular® 600, Foamular® 604, Foamular® 1000, Foamular® CW15, Foamular® CW25, Foamular® LT30, Foamular® LT40, Foamular® 404RB, Foamular® 604RB, Foamular® AgTek, Foamular® ProPink, Foamular® DuraPink, Foamular® PinkCore, Foamular® Half-Inch, Foamular® InsulPink, Foamular® ThermaPink, Foamular® DuraPink FA, Foamular® DuraPink Plus, Foamular® InsulPink - Z, Foamular® ThermaPink 18, Foamular® ThermaPink 25, Foamular® ThermaPink 40, Foamular® ThermaPink 60, Foamular® Extruded Polystyrene, Foamular® Insulating Sheathing, Foamular® Insuldrain, Foamular® PinkForm-Xtra ; Foamular® OC LiteForm

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.
9003-53-6	Polystyrene	80-90
75-68-3	HCFC-142b	7-12
3194-55-6	Hexabromocyclododecane	0.5-1.5
14807-96-6	Talc	0-2

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Nuisance particulates.

Component Information/Information on Non-Hazardous Components

No additional information available.

* * * Section 3 - Hazards Identification * * *

Appearance and Odor: Pink, white or green closed-cell foam board with no odor.

Emergency Overview

Exposure to dust may be irritating to eyes, nose, and throat. To prevent ignition, avoid smoking, keep from open flames and high temperatures. Grinding, sawing or fabrication activities can produce dust particles which may under certain conditions form explosive dust atmospheres that can be ignited.

Potential Health Effects

Inhalation:
Dusts produced by cutting or drilling of this product may cause irritation of the nose, throat, and respiratory tract.

Skin Contact:
No effects expected

Eye Contact:
Dust produced from cutting or drilling of this product may cause slight 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.

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

Inhalation:
If dust from cutting or drilling is inhaled, immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

Skin Contact:
For skin contact, wash with mild soap and running water. If irritation persists get medical attention.

Eye Contact:
Immediately flush eyes with plenty of 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:	>615ºF (324ºC)	**Flash Point Method:**	Method - ASTM D 1929
Upper Flammability Limit:	Not applicable	**Lower Flammability Limit:**	Not applicable
Flammability Classification:	Non-flammable	**Auto Ignition Temp.:**	Not applicable

Extinguishing Media:
Water, carbon dioxide, or dry chemical.

Unusual Fire & Explosion Hazards:
Produces dense black smoke while burning. Grinding, sawing or fabrication activities of the foamular board can produce dust particles which may under certain conditions form explosive dust atmospheres that can be ignited.

Fire-Fighting Instructions:
Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire.

Hazardous Combustion Products:

Primary combustion products are carbon monoxide, carbon dioxide, and styrene. The HCFC-142B ingredient thermally decompose at temperatures in the order of 430ºC (805ºF). The decomposition products include hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide, fluorine, and chlorine. Other undetermined hydrocarbon fractions could be released in small quantities.

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

Containment Procedures:

Dust from cutting or drilling 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. In water this material will float and disperse with wind and current. Contain the material with booms and pick up with absorbents or adsorbent materials, or remove with a vacuum truck.

Clean-Up Procedures:

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

Response Procedures:

Isolate area. Keep unnecessary personnel away.

Special Procedures:

None.

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

Handling Procedures:

No special procedures are required for this material.

Avoid inhaling dusts or vapors. Avoid eye and excessive skin contact. Use only with adequate ventilation. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Special care must be taken to avoid buildup of dusts.

Storage Procedures:

No special procedures are required for this material.

* * * 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.

Polystyrene (9003-53-6)

ACGIH: 10 mg/m3 TWA (inhalable particulate); 3 mg/m3 TWA (respirable particulate) (These values are for particulate matter containing no asbestos and <1% crystalline silica) (related to Particulates not otherwise classified (PNOC))

OSHA: total dust: 15 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA (related to Particulates not otherwise regulated)

Talc (14807-96-6)

ACGIH: 2 mg/m3 TWA (respirable fraction) (This value is for particulate matter containing no asbestos and <1% crystalline silica)

OSHA: 20 mppcf (Table Z-3 Mineral Dusts)

Ventilation:

Provide sufficient general and/or local exhaust ventilation to maintain exposures below the PELs or TLVs. Grinding sawing or fabrication activities of the foamular board can produce dust particles which may under certain conditions form explosive dust atmospheres that can be ignited.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

A properly fitted NIOSH approved disposable N 95 series dust respirator such as the 3M model 8210 (formerly 8710) or model 8271 (formerly 9900) in high humidity environments or equivalent should be used under the following conditions: 1) any dust environment; 2) when mechanically altering product (mechanical transfer, crushing, grinding, milling or other similar dust generating process. Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

Skin Protection:

Normal work clothing (long sleeved shirts and long pants) is recommended.

Eyes/Face Protective Equipment:

Wear safety glasses or goggles.

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

Appearance:	Pink, white or green foam	**Odor:**	None
Physical State:	Solid	**pH:**	Not applicable
Vapor Pressure (mm Hg @ 20 C):	Not applicable	**Vapor Density (Air=1):**	Not applicable
Boiling Point:	Decomposes over 600ºF (316ºC)	**Solubility (H2O):**	Insoluble
Specific Gravity (Water=1):	0.021-0.064	**Freezing Point:**	Softens @ 220ºF (104ºC)
Evaporation Rate (n-Butyl Acetate=1):	Not available		

Physical Properties: Additional Information

No additional information available.

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

Stability:

This is a stable material.

Conditions to Avoid:

Avoid dispersion of dust in air.

Incompatible Materials:

Hydrocarbons, esters and amines.

Hazardous Decomposition Products:

Primary combustion products are carbon monoxide, carbon dioxide, and styrene. The HCFC-142B ingredient thermally decompose at temperatures in the order of 430ºC (805ºF). The decomposition products include hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide, fluorine, and chlorine. Other undetermined hydrocarbon fractions could be released in small quantities.

Hazardous Polymerization:

Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute and Chronic Toxicity:

A: General Product Information

Dusts from cutting and drilling 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.

B: Component Analysis - LD50/LC50

HCFC-142b (75-68-3)

Inhalation LC50 Rat : 2050 gm/m3/4H

Inhalation LC50 Mouse : 1758 gm/m3/2H

Carcinogenicity:

A: General Product Information

Note: There are no known chronic health effects connected with long-term use or contact with these products.

B: Component Carcinogenicity

ACGIH, IARC, OSHA, and NTP carcinogen lists have been checked for those components with CAS registry numbers.

Polystyrene (9003-53-6)

IARC: Supplement 7, 1987; Monograph 19, 1979 (Group 3 (not classifiable))

Talc (14807-96-6)

ACGIH: A4- Not Classifiable as a Human Carcinogen (containing no asbestos fibers)

IARC: Group 3 (not classifiable) Supplement 7,1987; Monograph 42,1987

* * * Section 12 - Ecological Information * * *

Ecotoxicity:

No data available for this product. This material is not expected to cause harm to animals, plants or fish.

Environmental Fate:

No data available for this product.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Number & Descriptions:

A: General Product Information

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

B: 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

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:

A: General Product Information

No information available for the product.

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B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

HCFC-142b (75-68-3)

SARA 313: form R reporting required for 1.0% de minimis concentration

SARA 311/312	
Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactive Hazard:	No

C: Clean Air Act

None of this product's components are listed on the Clean Air Act-1990 Hazardous Air Pollutants List.

State Regulations:

A: General Product Information

No additional information available.

B: Component Analysis - State

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

Component	CAS #	CA	FL	MA	MN	NJ	PA
HCFC-142b	75-68-3	No	Yes	Yes	No	Yes	Yes
Talc	14807-96-6	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations:

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Polystyrene	9003-53-6	Yes	Yes	No
HCFC-142b	75-68-3	Yes	Yes	Yes
Hexabromocyclododecane	3194-55-6	Yes	Yes	Yes
Talc	14807-96-6	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

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

Component	CAS #	
HCFC-142b	75-68-3	1% item 357 (425)

WHMIS Status: Not controlled

WHMIS Classification: None

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* * * Section 16 - Other Information * * *

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

NFPA Unusual Hazards None

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

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 replaces 15-MSD-21518-01-B with updated composition information. 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 # 15-MSD-21528-01-C