

# MATERIAL SAFETY DATA SHEET

## EXPANDED POLYSTYRENE PLAIN & FOIL CLAD Ver. Date June 1, 1995

Perma "R" Products, Inc.  
16916 Hwy 8 West  
P. O. Box 279  
Grenada, MS 38902  
1-800-647-6130

Perma "R" Products, Inc.  
109 Perma "R" Road  
P. O. Box 5235 EKS  
Johnson City, TN 37603  
1-800-251-7532

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to the employees, customers, and users of this product. This product is covered by the OSHA Hazard Communication Rule and this document has been prepared in accord with the MSDS requirements of this rule.

### 1. GENERAL

<b>Trade Name</b>	PERMA "R" EXPANDED POLYSTYRENE - PLAIN & FOIL	
<b>Other Company Names</b>	This document covers all members of the series of products manufactured by Perma "R" Products, Inc.	
<b>Synonyms</b>	EPS	
<b>Chemical Family</b>	Expanded Polymers	DOT Hazardous Materials Proper Shipping Name Not Regulated
<b>Generic Name</b>	Expanded Polystyrene	DOT Hazard Class Not Regulated

### 2. SUMMARY OF HAZARDS

<b>Signal Word</b>	DANGER
<b>Physical Hazards</b>	Use caution around open flame
<b>Acute Health Effects (Short Term)</b>	Slight inhalation hazard Slight eye irritant Slight skin irritant No expected ingestion hazard No expected skin absorption hazard
<b>Chronic Health Effects (Long Term)</b>	No appropriate human or animal data are known to exist on adverse chronic health effects from repeated or prolonged exposure to this material



### 5. EMERGENCY AND FIRST AID

Eye Contact	In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.
Skin Contact	Remove contaminated clothes or shoes. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If ingested, obtain medical attention.
Emergency Medical Treatment Procedure	Treat burns or allergic reactions symptomatically after decontamination. After adequate first aid, no further treatment is required, unless symptoms reappear.

### 6. SPILL AND DISPOSAL

#### Waste Disposal Methods

Landfill solids at permitted sites. Comply with applicable regulations for solid waste disposal. Solids may also be burned, if mixed/fired with supplemental fuel. Vapors generated from solids can lower flash point of solid-fuel mixture. Avoid flameouts. Assure emissions with applicable regulations.

### 7. PHYSICAL AND CHEMICAL DATA

Boiling Point N/AP	Viscosity N/AP	Dry Point N/AP
Freezing Point N/AP	Vapor Pressure AP 500 PSIA (at 70 F.)	Volatile Characteristics Slight
Specific Gravity AP .94 (H <sub>2</sub> O = 1.0 at 39.2 F.)	Vapor Specific Gravity AP 25 (Air = 1.0 at 60-90 F.)	Solubility in Water Negligible
pH N/AP	Hazardous Polymerization Not expected to occur	Stability Stable
Other Chemical Reactivity	No additional information available	
Other Physical and Chemical Properties	No additional information available	
Appearance and Odor	White spherical beads; solvent odor	
Conditions to Avoid	Extreme Heat, sparks, open flame, other ignition sources, and oxidizing conditions	
Materials to Avoid	Strong Oxidizing Agents	
Hazardous Decomposition Products	Incomplete combustion may produce carbon monoxide and carbon dioxide	

## 8. GENERAL COMMENTS

### Other Comments

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the material itself.

### General Comments

No additional information available

## DISCLAIMER OF LIABILITY

The information in the MSDS was obtained from sources which we believe are reliable. HOWEVER THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

This MSDS was prepared and is to be used only for the products listed in "General". If the product is used as a component in another product, this MSDS information may not be applicable.



INNOVATIONS FOR LIVING™

View MSDS : [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

<b>Personal Protective Equipment</b>  Protective Gloves      Safety Glasses	<b>WHMIS Pictograms</b> <b>Not Controlled</b> Not Controlled	<b>DOT Pictograms</b> <b>Not Regulated</b> Not Regulated
---	--	--

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **Foamular® Extruded Polystyrene Insulation**  
 MSDS Manufacturer Number: 21528-NAM  
 Synonyms: 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® PINKCORE® TT, 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® INSUL-DRAIN®, Foamular® PinkForm-Xtra ; Foamular® OC LiteForm

Manufacturer Name: Owens Corning Foam Insulation, LLC  
 Address: One Owens Corning Parkway  
 Toledo, OH 43659  
 Customer Service Phone Number: 1-800-GET-PINK or 1-800-438-7465  
 Health Issues Information: 1-419-248-8234 (8am-5pm ET)  
 Technical Product Information: 1-800-GET-PINK or 1-800-438-7465  
 Emergency Phone Number: 1-419-248-5330 (after 5pm ET and weekends)  
 CHEMTREC: 800-424-9300 (24 hours everyday)  
 Canutec: (613) 996-6666 (Canada 24 hours everyday)  
 Website: www.owenscorning.com  
 MSDS Creation Date: 03/05/1997  
 MSDS Revision Date: 09/25/2007  
 MSDS Format: According to ANSI Z400.1-2004

**NFPA**

1  
0 0

**HMIS**

Health Hazard	0
Fire Hazard	1
Reactivity	0
Personal Protection	X

\* Chronic Health Effects

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Ingredient Percent
Polystyrene	9003-53-6	80 - 90 by weight
Talc	14807-96-6	0 - 2 by weight
1-Chloro-1, 1-difluoroethane (HCFC-142B)	75-68-3	7 - 12 by weight
Hexabromocyclododecane	3194-55-6	0.5 - 1.5 by weight

Non-Hazardous Statement: The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

### SECTION 3 - HAZARDS IDENTIFICATION

#### Applies to product :

Emergency Overview:	Dense Black Smoke will be produced during a fire. Grinding, sawing or fabrication activities can produce dust particles which under certain conditions may ignite or form explosive dust atmospheres.
Route of Exposure:	Eye contact Inhalation.
Potential Health Effects:	
Eye:	Dust may cause slight irritation.
Skin:	No effects expected.
Inhalation:	Dust may cause irritation of respiratory tract.
Ingestion:	Ingestion of this product is unlikely.
Chronic Health Effects:	There is no known chronic health effect connected with long-term use or contact with this product.
Carcinogenicity:	This material is not considered a carcinogen.
Potential Environmental Effects:	There is no known ecological information for this material.
Aggravation of Pre-Existing Conditions:	Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.
OSHA Regulatory Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Appearance and Odor:	Pink, white or green closed-cell foam board with no odor.

### SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Do not rub or scratch eyes. If eye irritation persists, consult a specialist.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to make sure intestinal blockage does not occur. Rinse mouth with water and drink water to remove fibers from the throat. If symptoms persist, call a physician.

---

**SECTION 5 - FIRE FIGHTING MEASURES**


---

Flammable Properties:	Non Flammable.
Flash Point:	> 615 °F (324 °C)
Flash Point Method:	ASTM D 1929
Auto Ignition Temperature:	Not applicable.
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Extinguishing Media:	dry chemical foam carbon dioxide (CO2) water fog
Unsuitable Media:	None.
Protective Equipment:	Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear.
Unusual Fire Hazards:	Grinding, sawing or fabrication activities can produce dust particles which under certain conditions may ignite or form explosive dust atmospheres.
Hazardous Combustion Byproducts:	Carbon monoxide. carbon dioxide. styrene. Small quantities of hydrogen fluoride, hydrogen chloride, fluorine and chlorine could be released. Other undetermined compounds could be released in small quantities.
Universal Fire And Explosion Hazards:	HCFC-142b thermally decomposes at > 430°C (850°F). Decomposition products include: Hydrogen fluoride, hydrogen chloride, fluorine, and chlorine. Not available.
<b>NFPA Ratings:</b>	
NFPA Flammability:	1
NFPA Health:	0
NFPA Reactivity:	0
NFPA Other:	

---

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**


---

Personnel Precautions:	Avoid contact with skin and eyes.
Methods for containment:	This material will settle out of the air. Prevent from spreading by covering, diking or other means.
Methods for cleanup:	Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination. Avoid dry sweeping. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.
Other Precautions:	Does not apply.

---

**SECTION 7 - HANDLING and STORAGE**


---

Handling:	Avoid dust formation. Do not breathe dust. Wear personal protective equipment.
Storage:	Keep product in its packaging until use to minimize potential dust generation.

Material should be kept dry and undercover.

---

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

---

Engineering Controls:	Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits. Dust collection system must be used in transferring operations, cutting or machining or other dust generating processes, such as using power tools. Vacuum or wet clean-up methods should be used. Grinding, cutting, sawing or fabrication activities that cut large numbers of interior foam cells can release localized amounts of flammable residual blowing agent or release dust particles that under certain conditions may ignite or form explosive dust atmospheres.
Eye/Face Protection:	Safety glasses with side-shields.
Skin Protection Description:	Protective gloves. Long sleeved shirt and long pants.
Respiratory Protection:	When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations:	Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

### EXPOSURE GUIDELINES

	Guideline OSHA	Guideline NIOSH	Guideline ACGIH	Ontario Canada	Mexico
Polystyrene	5 mg/m <sup>3</sup> , Respirable, 10 mg/m <sup>3</sup> , Total Particulates Not Otherwise Classified (PNOC)		3 mg/m <sup>3</sup> , respirable, 10 mg/m <sup>3</sup> , inhalable particles (NOS)	3 mg/m <sup>3</sup> , respirable, 10 mg/m <sup>3</sup> , inhalable Particulates (Insoluble) Not Otherwise Classified	
Talc		REL-TWA: 2 mg/m <sup>3</sup> (Respirable)	TLV-TWA: 2 mg/m <sup>3</sup> (Respirable)	TWAEV-TWA: 2 f/cc (Respirable)	VEMP-TWA: 3 mg/m <sup>3</sup> (Respirable)

---

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

---

Physical State:	Solid
Physical State Appearance:	Foam.
Color:	Pink, white or green
Odor:	No detectable odor.
Boiling Point:	Decomposes over 600 °F (316 °C)
Melting Point:	Softens @ 220 °F (104 °C)
Specific Gravity:	0.021-0.064 (Ref: water = 1).
Solubility:	Insoluble in water.
Vapor Density:	No Data
Vapor Pressure:	No Data
Evaporation Rate:	No Data
pH:	No Data
Flash Point:	> 615 °F (324 °C)
Flash Point Method:	ASTM D 1929
Auto Ignition Temperature:	Not applicable.



---

**SECTION 10 - STABILITY and REACTIVITY**


---

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Conditions to Avoid:	Dust dispersion in air.
Incompatible Materials:	Hydrocarbons esters Amines
Special Decomposition Products:	See Section 5 of MSDS for hazardous decomposition products during a fire.

---

**SECTION 11 - TOXICOLOGICAL INFORMATION**


---

**Applies to product :**

Acute Toxicity: 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. High exposures may cause difficulty breathing, congestion, and chest tightness.

<b>Carcinogens:</b>	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>	<b>IARC</b>	<b>NTP</b>	<b>MEXICO</b>
<b>Polystyrene</b>	No Data	No Data	No Data	Group 3 - Not Classifiable as to its Carcinogenicity to Humans.	No Data	No Data
<b>Talc</b>	A4 Not Classifiable as a Human Carcinogen	No Data	No Data	Group 2A - Probably carcinogenic to humans.	No Data	A4 Not Classifiable as a Human Carcinogen
<b>1-Chloro-1, 1-difluoroethane (HCFC-142B)</b>	No Data	No Data	No Data	No Data	No Data	No Data
<b>Hexabromocyclododecane</b>	No Data	No Data	No Data	No Data	No Data	No Data

**Applies to product :**

Sensitization: No information available.  
 Mutagenicity: No information available.  
 Reproductive Toxicity: No information available.  
 Teratogenicity: No information available.  
 Neurological Effects: No information available.

**Talc :**

Skin: Skin - Human Standard Draize Test. : 300 ug/3D-I - [mild](RTECS)  
 Inhalation: Inhalation. - Rat TCLo: 17 mg/m<sup>3</sup>/6H/26D (intermittent) [Lungs, Thorax, or Respiration - other changes]  
 Inhalation. - Mouse TCLo: 20400 ug/m<sup>3</sup>/6H/26D (intermittent) [Lungs, Thorax, or Respiration - other changes]  
 Inhalation. - Rat TCLo: 18 mg/m<sup>3</sup>/6H/2Y (intermittent) [Tumorigenic - carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration - bronchiogenic carcinoma; Endocrine - tumors]  
 Inhalation. - Rat TC: 11 mg/m<sup>3</sup>/1Y (intermittent) [Tumorigenic - equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration - tumors] (RTECS)

**1-Chloro-1, 1-difluoroethane (HCFC-142B) :**

Inhalation: Inhalation. - Mouse LC50: 1758000 mg/m<sup>3</sup>/2H [Details of toxic effects not reported other than lethal dose value.  
 Inhalation. - Rat LC50: 2050000 mg/m<sup>3</sup>/4H [Details of toxic effects not reported other than lethal dose value.(RTECS)

**Hexabromocyclododecane :**

Skin: Skin - Rabbit LD50: >8 gm/kg [Details of toxic effects not reported other than lethal dose value.](RTECS)

Ingestion: Inhalation. - Rat LD50: >10 gm/kg [Details of toxic effects not reported other than lethal dose value.](RTECS)

**SECTION 12 - ECOLOGICAL INFORMATION****Applies to product :**

Ecotoxicity: This material is not expected to cause harm to animals, plants or fish.

Environmental Fate: No data available for this product.

Bioaccumulation: Not available.

Biodegradation: Not available.

Mobility In Environmental Media: Not available.

**SECTION 13 - DISPOSAL CONSIDERATIONS****Applies to product :**

Waste Disposal: Dispose of in accordance with Local, State, Federal and Provincial regulations.

Contaminated Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

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

RCRA Characteristics: This material is not expected to be a characteristic hazardous waste under RCRA.

**SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Name: Not Regulated.

IATA Shipping Name: Not Regulated.

Canadian Shipping Name: Not Regulated.

IMDG Shipping Name : Not Regulated.

ADR Shipping Name : Not Regulated.

RID Shipping Name : Not Regulated.

ICAO Shipping Name: Not Regulated.

MEX Shipping Name : Not Regulated.

**SECTION 15 - REGULATORY INFORMATION****Inventory Status**

	Japan ENCS	ELINCS	EINECS Number	PICCS	South Korea KECL
Polystyrene	(6)-120	500-008-9			KE-13257
Talc			238-877-9	Listed	KE-32773
1-Chloro-1, 1-difluoroethane (HCFC-142B)			200-891-8		KE-05597
Hexabromocyclododecane			221-695-9	Listed	KE-18398

	Australia AICS	Canada DSL	EINECS Inventory Status	TSCA Inventory Status	
Polystyrene	Listed	Listed	No	Listed	
Talc	Listed	Listed	Yes	Listed	
1-Chloro-1, 1-difluoroethane (HCFC-142B)	Listed	Listed	Yes	Listed	
Hexabromocyclododecane	Listed	Listed	Yes	Listed	

**Applies to product :**

Canada Reg. Status: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

Canada WHMIS: Not controlled.

CA PROP 65: The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
This product does not contain any Proposition 65 chemicals.

Section 311/312 Hazard Categories:

Acute Health Hazard: No  
Chronic Health Hazard: No  
Risk of ignition: No  
Sudden Release of Pressure Hazard: No  
Reactive Hazard: No

Clean Air Act: This product does not contain any Hazardous Air Pollutants (HAPs).

**1-Chloro-1, 1-difluoroethane (HCFC-142B) :**

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 1%. Item: 357(425)

Section 313: Listed

**State Right To Know**

**Talc**

All State Information:

**1-Chloro-1, 1-difluoroethane (HCFC-142B)**

All State Information:

	RI	MN	IL	PA	MA
Polystyrene	No Data	No Data	No Data	No Data	No Data
Talc	Listed	Listed	No Data	Listed	Listed
1-Chloro-1, 1-difluoroethane (HCFC-142B)	No Data	No Data	No Data	Listed	Listed
Hexabromocyclododecane	No Data	No Data	No Data	No Data	No Data

	NJ				
Polystyrene	No Data				
Talc	No Data				
1-Chloro-1, 1-difluoroethane (HCFC-142B)	Listed				
Hexabromocyclododecane	No Data				

**SECTION 16 - ADDITIONAL INFORMATION**

---

HMIS Fire Hazard: 1  
HMIS Health Hazard: 0  
HMIS Reactivity: 0  
HMIS Personal Protection: X  
MSDS Creation Date: 03/05/1997  
MSDS Revision Date: 09/25/2007  
MSDS Revision Notes: Format Update

Disclaimer: 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.

Copyright© 1996-2008 Actio Software Corporation. All Rights Reserved.