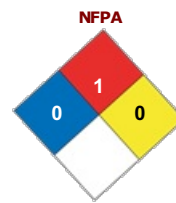




<b>Personal Protective Equipment</b>  Protective Gloves    Safety Glasses	<b>WHMIS Pictograms</b> <div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">Not Controlled</div>	<b>DOT Pictograms</b> <div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">Not Regulated</div>
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**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Celfort® Extruded Polystyrene Insulation  
**MSDS Manufacturer Number:** 24901-NAM  
**Synonyms:** InsulationCelfort® 200, Celfort® 200 Cel-Lok® System, CodeBord (Celfort® 200), Celfort® 300, Celfort® 200 Cel-Drain, Foamular® 350, Foamular® 400, Foamular® 600, Foamular® 1000, Foamular® Thermapink, Pipe Fabrication Billet  
**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)  
**Canotec:** (613) 996-6666 (Canada 24 hours everyday)  
**Website:** www.owenscorning.com  
**MSDS Creation Date:** February 05, 2001  
**MSDS Revision Date:** November 11, 2008  
**MSDS Format:** According to ANSI Z400.1-2004



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	60 - 100 by weight
1-Chloro-1, 1-difluoroethane (HCFC-142B)	75-68-3	7 - 13 by weight
Chlorodifluoromethane (HCFC-22)	75-45-6	1 - 5 by weight
Hexabromocyclododecane (HBCD)	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.

Signs/Symptoms:	Chronic respiratory or skin conditions may temporarily worsen from exposure to this product.
Aggravation of Pre-Existing Conditions:	
OSHA Regulatory Status:	This product 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. 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.

#### **NFPA Ratings:**

NFPA Health:	0
NFPA Flammability:	1
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. 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. Product 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
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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

	<b>Guideline OSHA</b>	<b>Guideline NIOSH</b>	<b>Guideline ACGIH</b>	<b>Ontario Canada</b>	<b>Mexico</b>
Polystyrene	5 mg/m3, Respirable, 10 mg/m3, Total Particulates Not Otherwise Classified (PNOC)		3 mg/m3, respirable, 10 mg/m3, inhalable particles (NOS)	3 mg/m3, respirable, 10 mg/m3, inhalable Particulates (Insoluble) Not Otherwise Classified	
Chlorodifluoromethane (HCFC-22)		REL-TWA: 1000 ppm REL-STEL: 1250 ppm	TLV-TWA: 1000 ppm		VEMP-TWA: 1000 ppm

#### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

**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.

##### **Carcinogens:**

	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>	<b>IARC</b>	<b>NTP</b>	<b>MEXICO</b>
Polystyrene	No Data	No Data	No Data	Group 3 - Not Classifiable as to its Carcinogenicity to Humans.	No Data	No Data
1-Chloro-1, 1-difluoroethane (HCFC-142B)	No Data	No Data	No Data	No Data	No Data	No Data
Chlorodifluoromethane (HCFC- 22)	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
Hexabromocyclododecane (HBCD)	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.

**Polystyrene :**

Carcinogenicity:

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

Inhalation: Inhalation. - Mouse LC50: 1758000 mg/m3/2H [Details of toxic effects not reported other than lethal dose value.  
Inhalation. - Rat LC50: 2050000 mg/m3/4H [Details of toxic effects not reported other than lethal dose value.(RTECS)

**Chlorodifluoromethane (HCFC-22) :**

Inhalation: Inhalation. - Rat LC50: 35 pph/15M [Behavioral - altered sleep time (including change in righting reflex); Behavioral - ataxia; Lungs, Thorax, or Respiration - respiratory depression]  
Inhalation. - Mouse LC50: 1380 gm/m3/2H [Behavioral - somnolence (general depressed activity); Behavioral - ataxia; Lungs, Thorax, or Respiration - cyanosis](RTECS)

Carcinogenicity:

**Hexabromocyclododecane (HBCD) :**

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	500-008-9		KE-13257
1-Chloro-1, 1-difluoroethane (HCFC-142B)			200-891-8		KE-05597
Chlorodifluoromethane (HCFC-22)	(2) -93		200-871-9		KE-25490
Hexabromocyclododecane (HBCD)			221-695-9	Listed	KE-18398

	Australia AICS	Canada DSL	EINECS Inventory Status	TSCA Inventory Status
Polystyrene	Listed	Listed	No	Listed
1-Chloro-1, 1-difluoroethane (HCFC-142B)	Listed	Listed	Yes	Listed
Chlorodifluoromethane (HCFC-22)	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.

**SARA:**

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).

**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

**Chlorodifluoromethane (HCFC-22) :**

**Canada IDL:**

Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 1%. Item: 358(426)

**Section 313:**

Listed

**State Right To Know**

	<b>RI</b>	<b>MN</b>	<b>IL</b>	<b>PA</b>	<b>MA</b>
Polystyrene	No Data	No Data	No Data	No Data	No Data
1-Chloro-1, 1-difluoroethane (HCFC-142B)	No Data	No Data	No Data	Listed	Listed
Chlorodifluoromethane (HCFC-22)	Listed	Listed	No Data	Listed	Listed
Hexabromocyclododecane (HBCD)	No Data	No Data	No Data	No Data	No Data

**NJ**

Polystyrene	No Data
1-Chloro-1, 1-difluoroethane (HCFC-142B)	Listed
Chlorodifluoromethane (HCFC-22)	Listed
Hexabromocyclododecane (HBCD)	No Data

**SECTION 16 - ADDITIONAL INFORMATION**

<b>HMIS Health Hazard:</b>	0
<b>HMIS Fire Hazard:</b>	1
<b>HMIS Reactivity:</b>	0
<b>HMIS Personal Protection:</b>	X
<b>MSDS Creation Date:</b>	February 05, 2001
<b>MSDS Revision Date:</b>	November 11, 2008
<b>MSDS Revision Notes:</b>	Update in section 4 and 6
<b>Revision Summary:</b>	Format Updated
<b>Disclaimer:</b>	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.