



MATERIAL SAFETY DATA SHEET

NFPA	WHMIS	Personal Protective Equipment	Transport Symbol
	Not Controlled		Not Regulated

Preparation Date: 2-May-2001

Revision Date 16-July-2007

Revision Number 4

1. PRODUCT and COMPANY IDENTIFICATION

Generic Product Name	Celfort® Extruded Polystyrene Insulation	
Common name	Celfort® 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	
MSDS No.	24901-NAM-EN	
Recommended Use	Insulation	
Contact manufacturer	Owens Corning foam insulation, LLC One Owens Corning Parkway Toledo, OH 43659	
Emergency telephone number	Emergencies Only (after 5 pm AND weekends) CHEMTREC (24 hours everyday) CAUNTEC (Canada – 24 hours everyday)	1-419-248-5330 1-800-424-9300 1-613-996-6666
Health and Technical contacts	Health Issues Information (8am-5pm ET): Technical Product Information (8am-5pm ET):	1-419-248-8234 1-800-GET-PINK or 1-800-438-7465

2. HAZARD IDENTIFICATION

Emergency Overview

Dense Black Smoke will be produced during a fire
Grinding, sawing, or fabrication activities can produce dust particles which may under certain conditions form explosive dust atmospheres that can be ignited.

Appearance: Pink, White, Green**Physical State:** Solid**Odor:** Odorless

Potential Health Effects**Principle Routes of Exposure**Eye
Inhalation**Acute Effects**

- **Eyes** Dust may cause slight irritation
- **Skin** No effects expected
- **Inhalation** Dust may cause irritation of respiratory tract
- **Ingestion** Ingestion of material is unlikely

Chronic Effects There is no known chronic health effect connected with long-term use or contact with these products

Aggravated Medical Conditions

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

Carcinogenic Status

This product is not considered a carcinogen

OSHA Regulatory Status

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

Potential Environmental Effects

There is no known ecological information for this product

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component	Percent by Wt.
9003-53-6	Polystyrene	60-100
75-68-3	HCFC-142b	7-13
3194-55-6	Hexabromocyclododecane (HBCD)	0-1.5
75-45-6	HCFC-22	1-5

Non-Hazardous Statement

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

4. FIRST AID MEASURES**Eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 Minutes
- Do not rub or scratch eyes
- If eye irritation persists, consult a specialist

Skin contact

- Wash off immediately with soap and water.
- If skin irritation persists, 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

Inhalation

- Move to fresh air
- If symptoms persist, call a physician

5. FIRE-FIGHTING MEASURES

Flammability/Combustibility Properties	Non-flammable
Suitable extinguishing media	dry chemical foam carbon dioxide (CO ₂) water fog
Unsuitable Extinguishing Media	None
Hazardous Combustion Products	<ul style="list-style-type: none">▪ Carbon Monoxide▪ Carbon Dioxide (CO₂)▪ Styrene▪ Small quantities of hydrogen fluoride, hydrogen chloride, fluorine and chlorine could be released.▪ Other undetermined compounds could be released in small quantities <p>HCFC-142b and HCFC-22 thermally decomposes at > 430°C (850°F). Decomposition products include:</p> <ul style="list-style-type: none">▪ Hydrogen Fluoride▪ Hydrogen Chloride▪ Fluorine▪ Chlorine
Explosion Data	
Sensitivity to Mechanical Impact	Not available
Sensitivity to Static Discharge	Not available
Special Hazards Arising from the Chemical	Grinding, sawing, or fabrication activities of the pellets can produce dust particles which may under certain conditions form an explosive dust atmosphere that can be ignited.
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with eyes and inhalation.
Methods for Containment	<ul style="list-style-type: none">• Material will settle out of air• Prevent from spreading by covering or other means
Methods for Clean-up	<ul style="list-style-type: none">• Use an industrial vacuum cleaner to clean up dust• Avoid dry sweeping• After cleaning, flush away traces with water• Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Handling	<ul style="list-style-type: none">• Avoid dust formation• Do not breathe dust• Wear personal protective equipment
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Storage

- Keep product in its packaging until use to minimize potential dust generation.
- Material should be kept dry and covered

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL
Polystyrene 9003-53-6	10 mg/m ³ (inhalable particulate) 3 mg/m ³ (respirable fraction – PNOC)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction –PNOC)
HCFC-22 75-45-6	1000 ppm – TWA	1000 ppm - TWA

Engineering Controls

- Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits.
- 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.
- Dust collection system must be used in transferring operations, cutting or machining or other dust generating process.
- Vacuum or wet clean-up methods should be used

Personal protective equipment**Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye/face Protection

Safety glasses with side-shields

Skin Protection

- Protective gloves
- Long sleeved shirt and long pants

General Hygiene Considerations

- Wash hands before breaks and immediately after handling the product
- Remove and wash contaminated clothing before re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pink, white, green	
Odor	Odorless	
Physical State	Solid	
pH	Does not apply	
Flash point	>615°F/324°C	Method ASTM D1929
Autoignition temperature	Does not apply	
Boiling Point	Decomposes over 600°F/316°C	
Melting point/range	Softens @ 220°F/104°C	
Flammability Limits in Air	lower /	upper /
Explosive properties	Not available	
Oxidizing properties	Does not apply	
Vapor Pressure	Does not apply	
Specific Gravity	0.021-0.064 (water=1)	
Water solubility	Insoluble	
VOC content	Not available	

10. STABILITY AND REACTIVITY

Chemical Stability

Stable

Conditions to avoid

Dispersion of dust in air

Incompatible Materials

Hydrocarbons
Esters
Amines

Hazardous decomposition products

- Carbon Monoxide
- Carbon Dioxide (CO₂)
- Styrene
- Small quantities of hydrogen fluoride, hydrogen chloride, fluorine and chlorine could be released.
- Other undetermined compounds could be released in small quantities

HCFC-142b thermally decomposes at > 430°C (850°F). Decomposition products include:

- Hydrogen Fluoride
- Hydrogen Chloride
- Fluorine
- Chlorine

Possibility of Hazardous Reactions

Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION**Acute toxicity****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.

Component Analysis – LD50/LC50

Component	CAS #	LD50 Oral	LC50 Inhalation
HCFC-142b	75-68-3		2050 gm/m ³ 4H Rat 1758 gm/m ³ 2H Mouse
HCFC-22	75-45-6		35 ppm/15M Rat 1380 mg/m ³ 2H Mouse

Chronic toxicity**Component Analysis**

	ACGIH	IARC	OSHA	NTP	Mexico
Polystyrene 9003-53-6		Group 3 not classifiable	--	--	--
HCFC-22 75-45-6	A4 not classifiable	Group 3 not classifiable	--	--	--

Allergy

No information available

Neurological Effects

No information available

Mutagenic Effects

No information available

Reproductive Effects

No information available

Developmental Effects

No information available

Target Organ Effects

No information available

12. ECOLOGICAL INFORMATION

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

Chemical Fate

Persistence/Degradability	Not available
Bioaccumulation/Accumulation	Not available
Mobility in Environmental Media	Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method 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.

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

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

14. TRANSPORT INFORMATION

<u>DOT</u>	not regulated
<u>TDG</u>	not regulated
<u>IMDG/IMO</u>	not regulated
<u>RID</u>	not regulated
<u>ADR</u>	not regulated
<u>ICAO</u>	not regulated
<u>IATA</u>	not regulated
<u>MEX</u>	not regulated

15. REGULATORY INFORMATION**International Inventories**

All components of this product are either listed on the following inventories or are exempt.

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
HCFC-22	75-45-6	Yes	Yes	Yes

USA**Federal Regulations****SARA 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)**

This product does contain a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

HCFC-142b – form R reporting required for 1.0% de minimis concentration

HCFC-22 – form R reporting required for 1.0% de minimis concentration

SARA 311/312 Hazardous Categorization

Acute Health Hazards	no
Chronic Health Hazards	no
Risk of Ignition	no
Sudden Release of Pressure	no
Reactive Hazard	no

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs

State Regulations**California Proposition 65**

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.

State Right-To-Know

	CA	MA	MN	NJ	PA	IL	RI
HCFC-142b		X		X	X	X	X
HCFC-22	X	X	X	X	X	X	X

Canada**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)
HCFC-22	75-45-6	1% item 358 (426)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Status Not Controlled

WHMIS Classification None

16. OTHER INFORMATION

Preparation Date: 2-May-2001

Revision Date 16-July-2007

Revision Summary Format was changed, new company name

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

End of Safety Data Sheet