



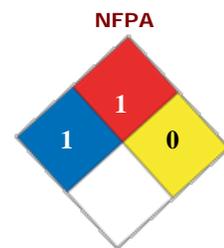
INNOVATIONS FOR LIVING™

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Personal Protective Equipment		DOT Pictograms
		Not Regulated
Protective Gloves	Safety Glasses	

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Foamular[®] High-R CW Plus
MSDS Manufacturer Number: 44972-NAM
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: August 13, 2002
MSDS Revision Date: November 11, 2008
MSDS Format: According to ANSI Z400.1-2004



HMIS

Health Hazard	1*
Fire Hazard	1
Reactivity	0
Personal Protection	X

* Chronic Health Effects

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Asphalt, oxidized	64742-93-4	0 - 5 by weight
Graphite	7782-42-5	0 - 5 by weight
Carbon black	1333-86-4	0.1 - 1 by weight
Hexabromocyclododecane	3194-55-6	0.5 - 1.5 by weight

Polystyrene	9003-53-6	60 - 100 by weight
1-Chloro-1, 1-difluoroethane (HCFC-142B)	75-68-3	7 - 13 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 product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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 Å°F (324 Å°C)
Flash Point Method:	ASTM D 1929
Lower Flammable/Explosive Limit:	Not available.
Upper Flammable/Explosive Limit:	Not available.
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

Hazardous Combustion Byproducts:	under certain conditions may ignite or form explosive dust atmospheres. 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.
<u>NFPA Ratings:</u>	
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

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 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
Asphalt, oxidized	PEL-TWA: 5 mg/m3 (Oil mist)	REL-TWA: 5 mg/m3 (Oil mist)	TLV-TWA: 0.5 mg/m3 (Fume) TLV-TWA: 5		

Graphite		mg/m3 (Oil mist) REL-TWA: 2.5 mppcf (Respirable)	TLV-TWA: 2 mg/m3 (Respirable)	TWAEV-TWA: 2 mg/m3 (Respirable)	VEMP-TWA: 2.5 mg/m3 (Respirable)
Carbon black		REL-TWA: 0.1 mg/m3 as Carbon black REL-TWA: 3.5 mg/m3 as Carbon black	TLV-TWA: 3.5 mg/m3		VEMP-TWA: 3.5 mg/m3
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	

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Foam Board.
Color:	Black
Odor:	No detectable odor.
Boiling Point:	Decomposes over 600 Å°F (316 Å°C)
Melting Point:	Softens @ 220 Å°F (104 Å°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 Å°F (324 Å°C)
Flash Point Method:	ASTM D 1929

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:	Primary combustion products are carbon monoxide, carbon dioxide, styrene, sulfur oxides, and hydrogen sulfide. The HCFC-142B ingredient thermally decompose at temperatures in the order of 430Å°C (805Å°F). 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 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.
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Carcinogens:

	ACGIH	NIOSH	OSHA	IARC	NTP	MEXICO
Asphalt, oxidized	No Data	NIOSH carcinogen	No Data	Group 3 - Not Classifiable as	No Data	No Data

	No Data	No Data	No Data	to its Carcinogenicity to Humans.	No Data	No Data
Graphite	No Data	No Data	No Data	No Data	No Data	No Data
Carbon black	A4 Not Classifiable as a Human Carcinogen	NIOSH carcinogen	No Data	Group 2B - Possibly carcinogenic to humans.	No Data	A4 Not Classifiable as a Human Carcinogen
Hexabromocyclododecane	No Data	No Data	No Data	No Data	No Data	No Data
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

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.

Asphalt, oxidized :**Carcinogenicity:**

In March, 1987, the International Agency for Research on Cancer (IARC) classified bitumens (such as petroleum asphalt in this product) as a Group 3 material, "not classifiable as to its carcinogenicity to humans." This classification was made based on inadequate evidence for the carcinogenicity of undiluted air-refined bitumens in experimental animals and inadequate evidence that bitumens alone are carcinogenic to humans. However, asphalt does contain a small amount of polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage in animals. Based on a 2000 review of health effects literature, NIOSH concluded that roofing asphalt fumes are a potential occupational carcinogen.

Carbon black :**Skin:**

Skin - Rabbit LD50: >3 gm/kg - [Details of toxic effects not reported other than lethal dose value.]
 Skin - Rat TDLo: 11 gm/kg/4W (intermittent) [Blood - pigmented or nucleated red blood cells; Liver - changes in liver weight; Nutritional and Gross Metabolic - weight loss or decreased weight gain](RTECS)

Inhalation:

Inhalation. - Rat TCLo - Lowest published toxic concentration: 7 mg/m³ - [Lungs, Thorax, or Respiration - other changes Biochemical - Metabolism (Intermediary) - effect on inflammation or mediation of inflammation] (RTECS)

Ingestion:

Inhalation. - Rat LD50: >15400 mg/kg [Behavioral - somnolence (general depressed activity)](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)

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)

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 as hazardous material for transportation.
IATA Shipping Name:	Not Regulated.
Canadian Shipping Name:	Not regulated as hazardous material for transportation.
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
Asphalt, oxidized			265-196-4		KE-01957
Graphite			231-955-3	Listed	KE-18101
Carbon black	(5)-3328		215-609-9		KE-04682
Hexabromocyclododecane			221-695-9	Listed	KE-18398
Polystyrene	(6)-120	500-008-9			KE-13257
1-Chloro-1, 1-difluoroethane (HCFC-142B)			200-891-8		KE-05597

	Australia AICS	Canada DSL	TSCA Inventory Status
Asphalt, oxidized	Listed	Listed	Listed
Graphite	Listed	Listed	Listed
Carbon black	Listed	Listed	Listed
Hexabromocyclododecane	Listed	Listed	Listed
Polystyrene	Listed	Listed	Listed
1-Chloro-1, 1-difluoroethane (HCFC-142B)	Listed	Listed	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:	Controlled - Class: D2A Very Toxic
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).

Carbon black:

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 1%. Item: 309(1271)

CA PROP 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.

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

	RI	MN	IL	PA	MA
Asphalt, oxidized	No Data				
Graphite	Listed	Listed	No Data	Listed	Listed
Carbon black	Listed	Listed	Listed	Listed	Listed
Hexabromocyclododecane	No Data				
Polystyrene	No Data				
1-Chloro-1, 1-difluoroethane (HCFC-142B)	No Data	No Data	No Data	Listed	Listed

	NJ
Asphalt, oxidized	No Data
Graphite	No Data
Carbon black	No Data
Hexabromocyclododecane	No Data
Polystyrene	No Data
1-Chloro-1, 1-difluoroethane (HCFC-142B)	Listed

SECTION 16 - ADDITIONAL INFORMATION

HMIS Health Hazard:	1*
HMIS Fire Hazard:	1
HMIS Reactivity:	0
HMIS Personal Protection:	X
MSDS Creation Date:	August 13, 2002
MSDS Revision Date:	November 11, 2008
MSDS Revision Notes:	Update in section 4 and 6
MSDS Author:	KK
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.

