







SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: GreenGuard® Insulation Board – CM, DC, SB, SL
Product Use: Building insulation board, Foamed Polystyrene
Manufacturer: Pactiv Corporation
2100 River Edge Parkway
Suite 175
Atlanta, GA
USA, 30328
www.green-guard.com
Phone Number: (678) 589-7309
Customer service: 1-800-227-7339, Extension 7309

Section 2: Hazards Identification

NFPA (USA)	WHMIS Classification (Canada)	Transport Symbol	Personal Protective Equipment
	 Not Regulated	 Not Regulated	

Emergency Overview:

During a fire, dense smoke, irritating and toxic fumes may be generated.

Appearance, Color and Odor: Green extruded polystyrene insulation board.

USA: This product conforms to the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard's definition of an "Article," i.e., "...a manufactured item: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent ... upon its shape or design ...; and (iii) which does not release, or otherwise result in exposure to, a hazardous chemical, under normal conditions of use." [29 CFR 1910.1200 (b) (6) (iv)]

This product is an article pursuant to 29 CFR 1910.1200 and, as such, is not subject to the OSHA Hazard Communication Standard requirement

Canada: This is not a controlled product under WHMIS. This product meets the definition of a "Manufactured Article" and is not subject to the regulations of the Hazardous Products Act.

While this product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and under WHMIS, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Potential Health Effects:

ACUTE (short term): see Section 8 for exposure controls

Relevant Route(s) of Exposure:

Skin contact, Eye contact.

Board product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as cutting, sawing or machining which result in the generation of airborne particulate.

Inhalation: High concentrations of dust may cause coughing and mild, temporary irritation following a short-term exposure. Long-term inhalation exposure to dusts can have respiratory effects (see Chronic health effects below).

Ingestion: Component substances are not acutely toxic. Swallowing particulates may cause gastrointestinal problems.

Skin: Dusts of this product may cause mild, temporary irritation.

Eye: Dusts may cause temporary irritation as a foreign object in the eye.

Section 2: Hazards Identification, continued

CHRONIC (long term): see Section 11 for additional toxicological data

Heavy prolonged industrial exposure to high airborne concentrations of dust may cause impaired lung function. Chronic bronchitis, pulmonary fibrosis and respiratory tract lesions have also been reported with high level inhaled dust exposures.

Medical Conditions Aggravated by Exposure: Not available

Interactions With Other Chemicals: Tobacco smoking in combination with long-term high dust exposures may increase both smoking and dust-related pulmonary health problems.

Potential Environmental Effects: Not available

Section 3: Composition / Information on Ingredients

No hazardous ingredients by OSHA and WHMIS criteria.

Section 4: First Aid Measures

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical advice.

Eye Contact: Do not allow victim to rub eyes. Let the eyes water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelids open. If irritation persists, immediately obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye.

Skin Contact: Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap. If irritation persists, obtain medical advice.

Ingestion: Not an expected route of exposure; no first aid measures expected to be required.

Section 5: Fire Fighting Measures

Flammable Properties: Not flammable. Product can burn if involved in a fire.

Suitable extinguishing Media: Use extinguishing agents approved for Class A hazards e.g. water spray, foam, carbon dioxide or dry chemical.

Unsuitable extinguishing Media: Not available

Explosion Data:

Sensitivity to Mechanical Impact: Not applicable

Sensitivity to Static Discharge: Not applicable

Specific Hazards arising from the Chemical: Combustion of the product is expected to produce carbon dioxide, carbon monoxide, irritating, and potentially toxic, fumes and dense black smoke.

Protective Equipment and precautions for firefighters: As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Prevent water runoff from fire control from entering natural waterways, sewers and drinking water supplies.

NFPA

Health: 0
Flammability: 1
Instability: 0

Section 6: Accidental Release Measures

- Personal Precautions:** Wear proper personal protective equipment as indicated in Section 8.
- Environmental Precautions:** It is good practice to prevent release of this product into the environment.
- Methods for Containment:** Isolate the spill area.
- Methods for Clean-up:** Sweep, scoop or vacuum product for recovery, recycling or disposal.

Section 7: Handling and Storage

- Handling:** During cutting machining operations, avoid contact with eyes and skin; do not breathe in any dust. Wear protective gloves. See Section 8 for Personal Protective Clothing.
- Storage:** KEEP OUT OF REACH OF CHILDREN. Protect from water and moisture. See Section 13 for disposal considerations.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Consult local authorities for acceptable exposure limits.

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA) mg/m³</u>	<u>U.S. OSHA PEL (8-hr. TWA) mg/m³</u>	<u>Ontario (Canada) TWAEV mg/m³</u>
Inhalable dust	3 (respirable) 10 (inhalable) Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	5 (respirable) 15 (total dust) Particles (insoluble or poorly soluble) Not Otherwise Regulated (PNOR)	3 (respirable) 10 (inhalable) Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)

Exposure Controls

- Engineering Controls:** Provide good general ventilation or local exhaust ventilation when necessary to control dust concentrations below exposure limits.
- Personal Protection:** Follow the directions for personal protective equipment for the worksite. Appropriate protective footwear is recommended when handling boards.
- Eye/Face Protection:** Wear safety glasses or goggles for all cutting operations.
- Skin Protection:** Not required for normal use of this product however, however it is good practice to wear gloves and clean body-covering clothing.
- Respiratory Protection:** When dust concentrations in air exceed the occupational exposure guidelines, wear an approved particulate respirator equipped with an N95, R95 or P95 filter.
- A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or Canadian Standards Association (CSA) Standard Z94.4-2002 must be followed whenever workplace conditions warrant a respirator's use.
- Other Protective Equipment:** Not applicable
- General Hygiene Measures:** Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Flash Point & method:	>260° (500°F) ASTM D 1929
Appearance, Color and Odor:	Green extruded polystyrene insulation board.	Autoignition Temperature:	>482°C (900°F)
Odor Threshold:	Not available	Flammability Limits in Air:	Not available
pH:	Not applicable	Vapor Pressure:	Not available
Relative density (water = 1):	0.07	Vapor Density (Air = 1):	Not available
Partition coefficient: (n-octanol/water)	Not available	Evaporation Rate: (n-Butyl Acetate = 1)	Not available
Solubility:	Insoluble in water	Boiling Point/Range:	Not available
Decomposition Temperature:	Not available	Melting Point:	>93°C (200°F)

Section 10: Stability and Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Avoid extreme high temperatures, and any source of ignition.
Incompatible Materials:	Strong oxidizers, aromatic and chlorinated hydrocarbons.
Hazardous Decomposition Products:	Thermal decomposition and incomplete combustion can produce toxic fumes containing the following: acids, acrolein, aldehydes, halogens, ketones, monomers, possible hydrocarbons, carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.

Section 11: Toxicological Information

Acute Toxicity Data is not available for this article.

Other Toxicity Data

Irritation:	Worker experience with this material indicates the product is non-irritating. Animal test data indicate the material is non-irritating.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Carcinogenicity:	The component substances are not classified as carcinogens in humans as described by ACGIH (American Conference of Governmental Industrial Hygienists) and IARC (International Agency for Research on Cancer).
Neurological Effects:	Not applicable
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not applicable
Target Organ Effects:	Not applicable

Section 12: Ecological Information

Ecotoxicity:	Not available
Persistence/Degradability:	This product is not readily bio-degradable. Plastic components will photodegrade with prolonged exposures to UV light (e.g. sunlight). Product is treated with a flame-retardant substance which is known to be persistent, bioaccumulative and toxic in the aquatic environment. Prevent releases to the environment and ensure proper disposal.
Bioaccumulation/Accumulation:	Not applicable
Mobility:	Not available

Section 13: Disposal Considerations

Waste Disposal Method:	Where facilities exist, the product and packaging can be recycled. Dispose in accordance with local regulations. Store material for disposal as indicated in Section 7 Handling and Storage. Proper incineration in state-of-the-art incinerators equipped with after-burners, yields carbon dioxide and water. Polymer materials may not decompose in modern sanitary landfills. Materials may be recycled where adequate collection and recycling facilities exist.
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Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR):	Not regulated as a dangerous good for transport.
Canadian Transportation of Dangerous Goods (TDG):	Not regulated
ADR/RID:	Not regulated
IMDG:	Not regulated
Marine Pollutants:	Not applicable
ICAO/IATA:	Not regulated

Section 15: Regulatory Information

USA	<p>TSCA : All component substances are listed on the TSCA 8(b) inventory. Contains: Hexabromocyclododecane as flame-retardant TSCA Section 8(a) PAIR reporting list; Section 8(d) health and safety reporting list of substances.</p> <p>SARA Title III : Sec. 302/304: None Sec. 311/312: Not applicable Sec. 313: Not applicable CERCLA RQ: None</p>
Canada	<p>This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations</i> and the SDS contains all the information required by the <i>Controlled Products Regulations</i>.</p> <p>WHMIS Classification: (for workplace exposures) Not controlled. Product meets the definition of a “manufactured article” and is not subject to the regulations of the Hazardous Products Act.</p> <p>DSL Inventory Status: This product meets the definition of an article under the NSNR (New Substance Notification Regulations) and is not required to be reported. Component substances are listed on the DSL.</p> <p>NPRI Substances: There are no NPRI (National Pollutant Release Inventory) reportable substances in this product.</p>

Section 16: Other Information

Issue date: May 25, 2011

For additional product and/or MSDS information, please contact your Pactiv Corporation sales representative or customer service representative. (1-800-227-7339, Extension 7309).

Information provided by sources external to our company and set forth herein is offered in good faith as accurate, but without guarantee. Safety precautions contained herein cannot anticipate all individual and unique situations. Conditions of use and suitability of the product for particular uses are beyond our control. All risks of use of the product are, therefore, assumed by the user, and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing herein is intended as recommendation for uses which infringe valid patents or as extension of license under valid patents. Appropriate warnings and safe handling procedures should be provided to users.

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