



# GreenGuard® Siding Underlayment, Sheathing & Roofing CoverBoard

## SAFETY DATA SHEET

### 1 Identification of Products and Company

#### Products

*Kingspan* **GreenGuard®** XP14 Siding Underlayment  
*Kingspan* **GreenGuard®** XP38 Siding Underlayment  
*Kingspan* **GreenGuard®** Q250 Siding Underlayment  
*Kingspan* **GreenGuard®** Q350 Siding Underlayment  
*Kingspan* **GreenGuard®** Plygood® Sheathing  
*Kingspan* **GreenGuard®** Plygood® Ultra Sheathing  
*Kingspan* **GreenGuard®** Plygood® R-2 Sheathing  
*Kingspan* **GreenGuard®** PB6 Roofing Cover Board  
*Kingspan* **GreenGuard®** PB6FA Roofing Cover Board  
*Kingspan* **GreenGuard®** PB38 Roofing Cover Board  
*Kingspan* **GreenGuard®** PB38FA Roofing Cover Board  
*Kingspan* **GreenGuard®** PB38FA Roofing Cover Board  
*Kingspan* **GreenGuard®** CB450 Condensation Board  
*Kingspan* **GreenGuard®** PB4 Waterproofing Protection Board  
 DURO-GUARD™ XPS Fanfold-P  
 TRI-BUILT® Fanfold Siding Underlayments

#### Product Use

Foamed Polystyrene or Polypropylene, Building insulation material

#### Company

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### 2. Hazards Identification

#### Classification of the substance or mixture according to GHS Classifications:

Not classified as a hazardous chemical according to GHS.

Label Elements: No hazard classifications.

Other Hazards: During a fire, smoke, irritating and toxic fumes may be generated. Product can melt at temperatures greater than 93°C (200°F).

#### Other Hazards Classifications:

**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.

### 3. Composition

Chemical Name	Case No.	% Weight Range
Hexabromocyclododecane flame retardant additive	3194-55-6	< 0.1

### 4. First Aid measures

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

Skin Contact: If irritation does occur, wash with plenty of water. If irritation persists, obtain medical advice.

Eyes: If particulate contacts the eyes, rinse cautiously with water while holding the eyelids open. If irritation persists obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye.

Ingestion: Not acutely toxic if swallowed. If swallowed, call a POISON CENTER or doctor.

### 5. Firefighting Measures

Extinguishing Media: Use water spray, foam, carbon dioxide, dry chemical, or other extinguishing media appropriate for the surrounding fire. Water or foam may cause frothing. Use water to keep fire-exposed material cool.

Special Hazards arising from substance: Not flammable. Product can burn if involved in a fire. During a fire, combustion can generate toxic fumes which may include resin fragments, smoke, carbon monoxide and carbon dioxide, acrolein, halogens, acids, ketones and aldehydes. Well-established fires are difficult to bring under control.

Advice 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.

### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:  
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 and material for containment and cleaning up:  
Sweep, scoop or vacuum product for recovery, recycling or disposal.

Additional Information: See Section 8 for information on selection of personal protective equipment.  
See Section 13 for information on disposal of spilled product.

## 7. Handling and Storage

Precautions for safe handling: During cutting machining operations, avoid contact with eyes and skin. Wear protective gloves. Avoid breathing dusts. Do not eat, drink or smoke in work areas. Take precautions to protect employees handling large rolls. See Section 8 for Personal Protective Clothing.

Conditions for safe storage, including any incompatibilities:

Store in a cool dry space away from extreme high temperatures, open flames, strong oxidizers, combustible materials, hot areas or other ignition sources. Avoid prolonged storage in direct sunlight.

## 8. Exposure Controls/Personal Protection

Occupational exposure limits: Consult local authorities for acceptable exposure limits. No recognized exposure limits for airborne chemical substances from this solid article.

Exposure Controls:

Engineering controls: Good general ventilation for normal conditions of use and during installation.

Personal protection: Follow the directions for personal protective equipment for the worksite. Appropriate protective footwear is recommended when handling large rolls.

Inhalation: 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 the regulatory requirements, such as OSHA's 29 CFR 1910.134 and ANSI Z88.2 or Canadian Standards Association (CSA) Standard Z94.4, must be followed whenever workplace conditions warrant a respirator's use.

Eyes / Face: Wear safety glasses or goggles for all cutting operations.

Skin: Not required for normal use of this product. A respiratory protection program that meets the regulatory requirements, such as OSHA's 29 CFR 1910.134 and ANSI Z88.2 or Canadian Standards Association (CSA) Standard Z94.4, must be followed whenever workplace conditions warrant a respirator's use.

## 9. Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance: Solid; tinted, thin foamed plastic sheathing. Green or blue-green..

Odor: Slight sweet, plastic odor.

Odor threshold: Not applicable.

pH: Not applicable.

Melting point: >93°C (200°F).

Initial boiling point and boiling range: Not applicable.

Evaporation Rate: Not applicable.

Flash point: Not applicable.

Flammability: Flashpoint of the sheet >260°C (500°F) ASTM D 1929.

Auto-ignition temperature: >482°C (900°F)

Upper / lower flammability or explosive limits: Not determined.

Explosive properties: Not applicable.

Oxidizing properties: Not applicable.

Sensitivity to mechanical impact: Not applicable.

Sensitivity to static discharge:	Not available.
Vapor pressure:	Not applicable.
Vapor Density:	Not applicable.
Relative density:	0.07 (water=1).
Solubility (is):	Insoluble in water.
Partition coefficient (n-octane / water):	Not applicable.
Decomposition temperature:	Not available.
VOC Content:	Not available.
Viscosity:	Not applicable

## 10. Stability and Reactivity

Reactivity:	Not classified for reactivity hazards.
Chemical stability:	Stable at normal ambient and anticipated storage and handling conditions.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Do not use in conditions of extreme heat or near open flames.
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.

## 11. Toxicological Information

Information on toxicological effects:	
Acute health effects:	Acute toxicity data are not available for this article.
Irritation:	Worker experience with this material indicates the product is non-irritating. Thermal decomposition of the product may release fumes which are irritating to eyes and respiratory system.
Chronic health effects:	None known.
Sensitization:	None known.
Neurological effects:	None known.
Genetic effects:	None known.
Reproductive effects:	Data not available.
Developmental effects:	For the flame retardant additive listed in Section 3: NOAEL for teratogenic effects = 1000 mg/kg bw (rat, gavage).
Target organ effects:	None known.

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).

Medical conditions aggravated by exposure:  
None known.

## 12. Ecological Information

Toxicity: Not available.

Persistence and degradability: This product is not readily bio-degradable. Plastic components will photodegrade with prolonged exposures to UV light (e.g. sunlight).

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

## 13. Disposal Considerations

Waste treatment methods: 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.

## 14. Transport Information

UN Number: Not regulated as a dangerous good for transport.

UN proper shipping name: Not regulated as a dangerous good for transport.

Transport hazard class(es): Not applicable.

Packing group: Not applicable.

Environmental hazards: Not applicable.

Special precautions for user: None known.

## 15. Regulatory Information

Safety, health and environmental regulations / legislation specific for the substance or mixture:

USA: OSHA: Article, Non-Hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.120 (2012).  
TSCA Inventory: 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.  
SARA Title III : Sec.302 / 304 : None.  
Sec. 313 : None.  
California Prop 65: This product contains Carbon Black (<0.1% w/w) embedded in a polyolefin resin. As sold, this product does not contain Carbon Black as airborne, or unbound particles of respirable size (particles less than 10µm).

Canada: WHMIS Classification: Not controlled. Product meets definition of a "manufactured article and is not subject to the regulations of the Hazardous Products Act.  
DSL: Component substances are listed on the DSL

## 16. Other Information

Revision Date: October 16, 2014.

References and sources for data:

Supplier MSDS for component materials.

Legend to abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists.

GHS: Globally Harmonized System for Classification and Labeling, UNECE 2013.

IARC: International Agency for Research on Cancer.

OSHA: United States, Occupational Safety and Health Administration.

NOAEL: No observed adverse effect level.

NTP: National Toxicology Program.

WHMIS: Canada, Workplace Hazardous Materials Information System.

Additional information:

For additional product and / or MSDS information, please contact Kingspan Insulation LLC at (800) 241-4402.

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