

Insulation

US & CA

GreenGuard®

Woven Building Wrap

SAFETY DATA SHEET

1 Identification of Products and Company

Products:

Kingspan GreenGuard® VW Building Wrap

Kingspan GreenGuard® MAX™ Building Wrap

Kingspan GreenGuard® RainDrop® 3D Building Wrap

Duro-Weave™ Separation Sheet

Recommended use:

Identified uses: Building wrap, building paper for construction.

Restrictions on use: Keep out of reach of children.

Supplier:

Kingspan Insulation LLC

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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:

Not applicable. No hazard classifications.

Other hazards:

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/Information on Ingredients

Chemical Name	Case No.	% Weight Range
No hazardous ingredients by OSHA and WHMIS criteria.		

4 First-Aid Measures

Description of first-aid measures:

Inhalation: If symptoms are experienced, remove source of contamination or have person move to fresh air. Get medical advice if you feel unwell or are concerned.

Eye Contact: 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.

Skin Contact: If skin irritation occurs wash with plenty of water. If irritation persists obtain medical advice. Ingestion: Not acutely toxic if swallowed. If swallowed, call a POISON CENTER or doctor.

Most important symptoms and effects, acute and delayed:

Direct contact with the eyes may cause irritation by mechanical action, as a foreign object in the eye.

Indication of any immediate medical attention and special treatment needed:
None known.

5 Fire-Fighting Measures

Extinguishing media:

Use water spray, appropriate foam, dry chemical or carbon dioxide 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 the chemical:

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.

In the heat of a fire, polypropylene melts and flows, producing flaming tar-like drippings, which are difficult to extinguish and can start secondary fires.

Handling rolls and sheets may result in the accumulation of a static charge, particularly in low humidity environments. Static discharge may be dangerous in areas where flammable vapors or combustible dusts are present in sufficiently high concentrations.

Special 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.

6 Accidental release Measures

Personal precautions, protective equipment and emergency procedures:

Stop the release if you can do it without risk.

Wear protective gloves and eye protection as indicated in Section 8 of this SDS.

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.

7 Handling and Storage

Precautions for safe handling:

Read the label instructions before use.

During cutting machining operations, avoid contact with eyes and skin and avoid breathing any dusts. Wear protective gloves.

Do not eat, drink or smoke in work areas.

Take precautions to protect employees handling large, heavy rolls of product.

Conditions for safe storage:

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.

Incompatible materials: Strong oxidizers, aromatic and chlorinated hydrocarbons

8 Exposure Controls / Personal Protection

Control parameters:

Occupational Exposure Limits: Consult local authorities for acceptable exposure limits.

Ingredient	ACGIH® TLV®	OSHA	ONTARIO (Canada) TWA
Inhalable Dust	3 mg/m ³ (respirable) 10 mg/m ³ (inhalable) Particles (insoluble or poorly soluble) Not Otherwise specified (PNOS)	5mg/m ³ (respirable) 15 mg/m ³ (inhalable) Particles (insoluble or poorly soluble) Not Otherwise specified (PNOS)	3 mg/m ³ (respirable) 10 mg/m ³ (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.

Individual protection measures:

Eye/Face protection: Wear safety glasses with side-shields as needed to prevent contact with the eyes.

Skin protection: Wear protective gloves and clean body-covering clothing as needed to prevent abrasion of the skin.

Respiratory protection: Not required for normal use. Where occupational exposure limits are exceeded, or if used indoors on a continuous basis, wear an approved cartridge-type respirator (N95, R95 or P95 filter or equivalent). 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.

Other protection: Wash hands after handling the product and before smoking or eating. Appropriate footwear is recommended when handling large rolls.

9 Physician and Chemical Properties

Information on basic physical and chemical properties:

Appearance: Solid; White or colored, cross-woven polyolefin base fabric with polyolefin coating. Typically packaged in roll form. RainDrop® 3D cross-woven polyolefin base fabric includes black filaments to enhance surface drainage.

Odor:	Slight sweet, plastic odor.
Odor threshold:	Not applicable.
pH:	Not applicable.
Melting point/freezing point:	160°C (320°F).
Initial boiling point and boiling range:	Not applicable.
Flash point:	Not applicable.
Evaporation rate:	Not applicable.
Flammability (solid, gas):	Solid material may burn at or above 316°C (600°F).
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	Not available
Solubility (ies):	Insoluble in water.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Explosive properties:	Not applicable.
Oxidizing properties:	Not applicable.
Sensitivity to mechanical impact:	Not applicable.
Sensitivity to static discharge:	Not available.
Decomposition temperature:	>300°C (572°F).
Viscosity:	Not applicable.
VOC content:	Not available.

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

Acute health effects:

Acute toxicity data are not available for this article.

Skin corrosion / 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:

Data not available.

STOT (Specific Target Organ Toxicity) – Single exposure:

Data not available.

STOT (Specific Target Organ Toxicity) – Repeated exposure:

Data not available.

Aspiration hazard:

Data not available.

Sensitization - respiratory and/or skin:

Data not available.

Sensitization:

None known

Neurological effects:

None known

Genetic effects:

None known

Reproductive effects:

None known

Developmental effects:

None known

Carcinogenicity:

The component substances are not considered human carcinogens as described by ACGIH (American Conference of Governmental Industrial Hygienists) and IARC (International Agency for Research on Cancer).

Medical conditions aggravated by exposure:

Data not available.

Interactive effects:

Data not available.

12 Ecological Information

Toxicity: Data 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: Data not available.

13 Disposal Considerations

Disposal 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.

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 the 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:

March 22, 2022

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. 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.



Please scan the QR code for the most recent product information.

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