



## SAFETY DATA SHEET

### 1 Identification of Products and Company

Products:

Kingspan OPTIM-R®

Recommended use:

Identified uses: Roof panels for construction.

Restrictions on use: Keep out of reach of children.

Supplier:

Kingspan Insulation LLC

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Email: [info@kingspaninsulation.us](mailto:info@kingspaninsulation.us)

Website: [www.kingspaninsulation.us](http://www.kingspaninsulation.us)

### 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

No hazardous ingredients by OSHA and WHMIS criteria.

### 4 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.

Skin: If skin irritation occurs: Get 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 Fire-Fighting Measures

Extinguishing media: Water spray, appropriate foam, dry chemical or carbon dioxide or other extinguishing media appropriate for the surrounding fire.

Un-suitable extinguishing media: None known.

Special hazards arising from the chemical: Not flammable. During a fire, combustion can generate toxic fumes which may include resin fragments, smoke, carbon monoxide and carbon dioxide.

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: Pick up product for recovery, recycling or disposal.

## 7 Handling and Storage

Precautions for safe handling: Read label instructions before use. Take precautions to protect employees by ensuring the stability of stacked panels.

Conditions for safe storage: Store indoors in a dry space away from extreme high temperatures. Keep in original packaging until ready for installation.

## 8 Exposure Controls / Personal Protection

Control parameters: In the event of rupture of the envelope, the core contents may be released.

The following occupational exposure limits may be applicable in the event of accidental release of the core contents:

Ingredient	ACGIH® TLV®	OSH A	Other Exposure Limits
Fumed silica Particles Not Otherwise Regulated / Specified (PNOR / PNOS)	3 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (inhalable)	5 mg/m <sup>3</sup> (respirable) 15 mg/m <sup>3</sup> (total dust)	Ontario, Alberta TWA: 3mg / m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (inhalable)  Quebec VEMP: 10 mg/m <sup>3</sup> (Poussières totales)
Silicon carbide-non-fibrous	3 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (inhalable)	5 mg/m <sup>3</sup> (respirable) 15 mg/m <sup>3</sup> (total dust)	Ontario, Alberta TWA: 3 mg / m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (inhalable)  Quebec VEMP: 10 mg/m <sup>3</sup> (Poussières totales)

Engineering controls: Not normally required if product is used as directed.

Eye / Face protection: Wear UV protective gloves 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 (NIOSH/MSHATC 23C or equivalent). If workplace respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Consult with respirator manufacturer to determine respirator selection, use and limitations.

Other protection: Wash hands after handling the product and before smoking or eating.

## 9 Physician and Chemical Properties

Appearance:	Solid; silver or white foil covered panels.
Odor:	Odorless.
Odor threshold:	Not applicable.
pH:	Neutral under normal conditions.
Melting point /freezing point:	No applicable.
Initial boiling point and boiling range:	Not applicable.
Flash point:	Not applicable.
Evaporation rate:	Not applicable.
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	180–210 kg/m <sup>3</sup>
Solubility (ies):	Insoluble in water.
Solubility in organics:	Some liquids might cause swelling.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Envelope materials: 355°C.
Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Sensitivity to mechanical impact:	Not applicable

Sensitivity to static discharge: Not available  
Decomposition temperature: Not available.  
Viscosity: Not applicable.  
VOC content: Not available.

## 10 Stability and Reactivity

Reactivity: None known.

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: None known.

Hazardous decomposition products: The encapsulating materials of the envelope begin to decompose at 150°C. Thermal decomposition products may include resin fragments, smoke, carbon monoxide, carbon dioxide and will vary with temperature and oxygen availability.

## 11 Toxicological Information

Information on toxicological effects:

Likely routes of exposure: Skin contact.

Acute toxicity:

Inhalation: Acute toxicity data are not available for this article. Ingestion: Acute toxicity data are not available for this article.

Skin: Acute toxicity data are not available for this article.

Skin corrosion / irritation: Data not available. Worker experience with this material indicates the product is non-irritating.

Serious eye damage / irritation: Data not available.

STOT (Specific Target Organ Toxicity) – Single exposure: Data not available.

STOT (Specific Target Organ Toxicity) – Related exposure: Data not available.

Aspiration hazard: Data not available.

Sensitization - respiratory and/or skin: Data not available.

Carcinogenicity: This product is not considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA (Occupational Safety and Health Administration) or NTP (National Toxicology Program).

Reproductive toxicity: Data not available.

Germ cell mutagenicity: Not known to be mutagenic.

Interactive effects: Data not available.

## 12 Ecological Information

Toxicity: Data not available for this solid article.

Persistence and degradability: This product is not readily bio-degradable.

Bioaccumulative potential: Data not available.

Mobility in soil: Data not available.

## 13 Disposal Considerations

Disposal methods: Where facilities exist, the product cores can be recycled.

Dispose in accordance with local regulations. Store material for disposal as indicated in Section 7 Handling and Storage.

## 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:

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.

## 16 Other Information

Revision date:

June 4, 2018

References and sources for data:

Supplier MSDS for component materials

HSDB

NIOSH Pocket Guide

Legend to abbreviations:

ACGIH® – American Conference of Governmental Industrial Hygienists

DSL – Domestic Substances List, New Substances Notification Regulations,

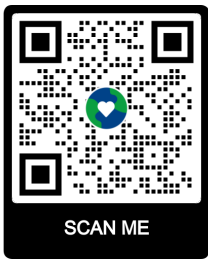
Environment and Climate Change Canada OSHA – Occupational Safety and Health Administration

TSCA – Toxic Substances Control Act, US EPA TWA – Time weighted average

WHMIS – 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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