

**SECTION 1 – PRODUCT INFORMATION****MANUFACTURER:** ModulR TS**HEAD OFFICE:** 120 Cocagne Cross Road  
Cocagne, New Brunswick  
Canada  
E4R 2J2**INFORMATION PHONE:** 506-576-6206**EMERGENCY PHONE:** (8:00am to 5:00pm)**TOLL FREE:** 1-800-908-9899**FAX:** 1-506-576-6207**PRODUCT NAME:** Laminated Tapered Polyiso (GF)**PRODUCT USE:** Tapered roofing insulation

**Section 1 Notes:** Laminated Tapered Polyiso (GF) Polyisocyanurate foam panel. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding, or machining that result in the generation of airborne particulates (dusts). Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Inhalation of high amounts of dust over long periods may overload lung clearance mechanisms and make lungs more vulnerable to respiratory disease. This product contains a chemical known to the State of California to cause cancer (Proposition 65). The adhesive used in the lamination process is a two component adhesive which is fully cured when the finished product leaves the manufacturing facility. It is classed “not controlled” by WHIMS.

**SECTION 2 – PREPARATION INFORMATION****MSDS prepared by:** ModulR TS Inc.**Department:** Health & Safety Department**Phone:** 1-506-576-6206**Date of Preparation:** March 20, 2014**SECTION 3 – COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS**

Ingredient	CAS No.	% (wt / wt)	LD <sub>50</sub> (species and route) LC <sub>50</sub> (species and route)
POLYISO PANELS			
Polyisocyanurate Foam	None	80 - 100%	Breathable dust (10mg/m <sup>3</sup> )
Fiberglass	65997-17-3	7 - 13%	1f/cc (for fibres longer than 5µm with a diameter of less than 3µm)
Carbon Black	1333-86-4	1 - 5%	Breathable dust (3.5mg/m <sup>3</sup> )
ADHESIVE			
2 component adhesive (cured)	Not applicable	100%	Not applicable

#### SECTION 4 – PHYSICAL DATA

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**Physical State:** Polyisocyanurate foam: Solid; Adhesive: Solid

**Odour and appearance:** Polyisocyanurate foam: White or cream coloured solid with a black fibreglass or paper facing; Adhesive: Black, slight petroleum odour.

**Odour threshold:** Not available

**Specific gravity:** Polyisocyanurate foam: Not determined; Adhesive: 1.24 g/cm<sup>3</sup> @20°C

**Vapour pressure:** Polyisocyanurate foam: Not applicable; Adhesive: Not available

**Vapour density:** Polyisocyanurate foam: Not applicable; Adhesive: Not available

**Relative density:** Polyisocyanurate foam: Not applicable; Adhesive: Not available

**Evaporation rate:** Polyisocyanurate foam: Not available; Adhesive: Negligible

**Boiling point:** Polyisocyanurate foam: Not available; Adhesive: Not available

**Freezing point:** Not available

**pH:** Not available

**Coefficient of water/oil distribution:** Not available

**Solubility:** Polyisocyanurate foam: insoluble in water; Adhesive: Not available

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#### SECTION 5 – FIRE AND EXPLOSION HAZARD – Polyisocyanurate foam

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**Flammability:** Not applicable

**Explosion data:** Not applicable

**Flash point:** Not applicable

**Auto-ignition temperature:** Not available

**Inflammability limits in air (% in volume):** Not applicable

**Fire hazards:** The product is a solid article that will burn if exposed to an ignition source of sufficient heat and intensity, or open flame, such as a welder's torch. It should be installed with a 15-minute thermal barrier between it and the structure's interior.

**Combustion products:** Under certain fire conditions, combustible gases can be generated creating rapidly spreading, high intensity flames and dense, black smoke. Burning of this product can produce irritating and potentially toxic fumes and gases, including carbon monoxide and carbon dioxide; other undetermined hydrocarbon fractions could be released in small quantities.

**Extinguishing media:** Carbon dioxide, dry chemical, water spray.

**Special procedures:** Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standards.

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## SECTION 5 – FIRE AND EXPLOSION HAZARD – Adhesive

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**Flashpoint:** Not applicable

**Upper flammable limit:** Not available

**Lower flammable limit:** Not available

**Auto ignition temperature:** Not available

**Hazardous combustion products:** Carbon monoxide, carbon dioxide, sulphur oxides

**Conditions of flammability:** Can be made to burn

**Explosion sensitivity:** Not sensitive

**Means of extinction:** Water fog, chemical foam, dry chemicals, carbon dioxide

**Special firefighting procedures:** Firefighters should wear self-contained breathing apparatus when fighting fires in a confined space

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## SECTION 6 – REACTIVITY DATA

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**Stability:** Polyisocyanurate foam – Stable, avoid source of ignition; Adhesive – stable.

**Conditions of reactivity:** Polyisocyanurate foam – Stable; Adhesive – may react in presence of strong oxidizers.

**Incompatibility:** Polyisocyanurate foam – Acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide and dimethyl formamide; Adhesive – strong oxidizer.

**Hazardous decomposition products:** Polyisocyanurate foam – Primarily CO, CO<sub>2</sub>. Some HCN possible under certain conditions; Adhesive – carbon monoxide, carbon dioxide and sulphur oxides on combustion.

**Hazardous polymerisation:** None

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## SECTION 7 – TOXICOLOGICAL PROPERTIES

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**Routes of Entry:** Skin contact, eye contact, inhalation and ingestion

**Skin contact:** Polyisocyanurate Foam, Fibreglass: Direct contact with rough-cut foam or felt facers can cause mechanical abrasion cuts or puncture to fingers, hands or exposed skin; Carbon Black: Carbon black is not irritating to the skin; Adhesive – Direct skin contact.

**Eye contact:** Polyisocyanurate Foam, Fibreglass: Mechanical irritation, redness, tearing, and blurred vision can occur if dusts generated from these products come into contact with eyes; Carbon Black: Carbon black dust is not irritating to the eyes except as a "foreign object";

**Inhalation:** Polyisocyanurate Foam: Dust may cause transient mechanical irritation of the upper respiratory tract; Fibreglass: Airborne fragments of glass fibres may cause mechanical irritation of the upper respiratory tract, particularly mouth, nose and throat; glass dust may cause transient irritation of the upper respiratory tract; Carbon Black: Carbon black does not appear to cause significant harmful effects after a single short- term exposure, except general effects that would be expected with any fine dust (high concentrations can cause coughing and mild, temporary irritation).

**Ingestion:** It is unlikely that toxic amounts of this product would be ingested with normal handling and use.

**Effects of Acute Exposure:** Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing. Frequent or prolonged contacts may cause skin irritation. The dust may cause eye irritation.

**Effects of Chronic Exposure:** Polyisocyanurate foam – Not significant; Adhesive – No known health effects due to chronic exposure.

**Carcinogenicity:** Polyisocyanurate Foam: No information available; Fibreglass: Results from epidemiological studies have not shown any increase in respiratory disease or cancer. The International Agency for Research on Cancer (IARC) has classified continuous filament fibreglass “Not Classifiable as to Carcinogenicity to Humans” (Group 3); Carbon Black: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for the carcinogenicity of carbon black to humans and that there is sufficient evidence that carbon black is carcinogenic to experimental animals. The International Agency for Research on Cancer (IARC) has concluded that this chemical is possibly carcinogenic to humans (Group2B).The American Conference of Governmental Industrial Hygienists (ACGIH) has designated this chemical as not classifiable as a human carcinogen (A4). The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens; Adhesive – None known.

**Reproductive toxicity:** No information available

**Teratogenicity:** No information available

**Mutagenicity:** No information available

**Toxicologically synergistic products:** No information available

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## SECTION 8 – PREVENTIVE MEASURES

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**Hands:** Wear gloves

**Respiratory:** If the TLV to dust is exceeded, if use is performed in a poorly ventilated confined area, use an approved respirator in accordance with standards.

**Eyes:** Goggles or safety glasses with side shields are recommended.

**Feet:** Work shoes in accordance with standards.

**Body:** If excessive dust is generated during operations, wear long sleeved, loose fitting clothing, long pants and gloves, to reduce irritation.

**Others:** Eye bath and safety shower.

**Specific Engineering Controls:** Maintain airborne concentrations below exposure limits. Use general dilution ventilation and/or local exhaust ventilation as required for grinding and cutting operations, to maintain airborne concentrations below applicable exposure limits.

**Procedures to follow in case of a spill or leak:** Not applicable

**Waste disposal:** This product is not hazardous waste. Consult provincial and federal regulations to know disposal methods. This material is not listed by the EPA as hazardous waste as to follow RCRA (USA) regulations.

**Handling procedures and equipment:** Unpack material at application site to avoid unnecessary handling of product. Keep work areas clean. Avoid unnecessary handling of scrap material and debris by placing such materials in suitable containers, which should be kept as close to the work area as possible. Ensure adequate ventilation. Avoid excessive eye and skin contact with dusts and fibres. Follow recommended clean up procedures to avoid build-up of dusts and fibres in the work area. Wash or shower daily at the end of each shift and change into uncontaminated clothing before leaving the work premises. Practice good hygiene and maintain personal cleanliness to prevent disease.

**Storage requirements:** Store in a dry, well-ventilated area. Assure storage containers or areas and shipping containers are adequately ventilated. No Smoking – No Matches – No Lighters – No Welding rules should be enforced. Install according to manufacturer's recommendations.

**Special shipping information:** This product is not regulated by DOT and TDG.

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## SECTION 9 – FIRST AID MEASURES

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### Specific First Aid Measures

**Skin:** In case of irritation, wash skin with water and soap.

**Eyes:** Flush eyes with water for at least 15 minutes while holding eyelids open. Obtain medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust. Obtain medical attention if feeling of sickness persists.

**Ingestion:** Product is not intended to be ingested or eaten. If product is ingested, irritation of the gastrointestinal tract may occur, and should be treated symptomatically. Do not induce vomiting. Rinse mouth with water to remove particles, and drink plenty of water to help reduce the irritation. [No chronic effects are expected following ingestion.]

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To the best of our knowledge the information contained herein is accurate. However neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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