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## SECTION 1 – PRODUCT INFORMATION

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**MANUFACTURER:** ModulR TS

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**PRODUCT NAME:** Protec

**PRODUCT USE:** Fire resistant insulation for roofing

**Section 1 Notes:** Protec is a manufactured article, as defined under the Hazardous Products Act. Under normal conditions of use, when installed, exposures to its components are unlikely.

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## SECTION 2 – PREPARATION INFORMATION

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**MSDS prepared by:** ModulR TS Inc.

**Department:** Health & Safety Department

**Phone:** 1-506-576-6206

**Date of Preparation:** March 15, 2014

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## SECTION 3 – HAZARDOUS INGREDIENTS

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Ingredient	CAS No.	% (wt /wt)	LD <sub>50</sub> (species & route) LC <sub>50</sub> (species & route)
Mineral wool	65977-17-3	94-95%	1 f/cc(for fibres longer than 5um with a diameter of less than 3um)
Cured Urea Extended Phenolic Formaldehyde Binder	25104-55-6	2-5	LD <sub>50</sub> (oral, rodent-rat) = 7 gm/kg

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## SECTION 4 – PHYSICAL DATA

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**Physical State:** Semi-rigid grey/green fibrous board.

**Odour and appearance:** The mineral fibre layer is a grey to green fibrous bat or board, and might have a slight resin odour.

**Odour threshold:** Not available

**Specific gravity:** Mineral wool – 2.540 g/cu. Cm. (Type II, mats).

**Vapour pressure:** Mineral wool – V.P. is exceedingly low and not measurable.

**Vapour density:** Not applicable

**Relative density:** 2.5 to 2.6 (water = 1)

**Evaporation rate:** Not applicable

**Boiling point:** Not applicable

**Melting point:** 1177°C

**Freezing point:** Not applicable

**pH:** Not available

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

**Solubility:** insoluble in water.

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## SECTION 5 – FIRE AND EXPLOSION HAZARD

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**Conditions of Flammability:** Non-flammable

**Means of Extinction:** Not applicable

**Flash point and means of determination:** Non-flammable

**UFL:** Not available

**LFL:** Not available

**Auto Ignition Temperature:** Will not self-ignite

**Extinguishing media:** Not applicable

**Hazardous combustion products:** Cured urea extended phenolic formaldehyde binder – Primary combustion products when heated above 200°C include carbon monoxide, carbon dioxide, ammonia, water and trace amounts of formaldehyde. The released gases may be irritating to the eyes, nose and throat.

**Explosion Data – sensitivity to mechanical impact:** Not applicable

**Explosion Data – sensitivity to static discharge:** Not applicable

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## SECTION 6 – REACTIVITY DATA

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**Conditions under which the product is chemically unstable:** Stable.

**Incompatible substances:** Avoid contact with strong Acids

**Conditions of reactivity:** Cured urea extended phenolic formaldehyde binder - reacts with hydrofluoric acid.

**Hazardous decomposition products:** Hazardous polymerization will not occur.

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**SECTION 7 – TOXICOLOGICAL PROPERTIES**

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

**Skin contact:** Mineral fibres – irritation (i.e. itching) or redness due to mechanical action.

**Skin absorption:** Not applicable

**Eye contact:** Mineral fibres – irritation (itching) or redness due to mechanical action.

**Inhalation:** Mineral fibres – Temporary mechanical irritation of the upper respiratory tract (scratchy throat, coughing, and congestion) can result from exposure to dust and fibres.

**Ingestion:** Ingestion of mineral fibres is unlikely and not intended under normal conditions of use. Ingestion may cause gastrointestinal irritation.

**Existing Medical Conditions:** Pre-existing chronic eye, skin and respiratory conditions may temporarily worsen due to exposure to mineral fibres and dusts.

**Effects of Acute Exposure:** Dust may cause transitory inflammation and irritation of the surfaces of the eyes and respiratory passages, as well as pigmentation of the cornea.

**Effects of Chronic Exposure:** Not significant

**Exposure Limits:**

Source	Exposure Limit	Exposure
ACGIH	1 f/cc (respirable fibres) – 8 hr. TLV-TWA	Synthetic Vitreous Fibres, > 5 micron length, < 3 micron diameter
ACGIH	10 mg/m <sup>3</sup> – 8 hr. TLV-TWA (inhalable particulate)	Particulate not otherwise classified, containing no asbestos and < 1% crystalline silica
	3 mg/m <sup>3</sup> – 8 hr. TLV-TWA (respirable particulate)	

ACGIH – American Conference of Governmental Industrial Hygienists, 2006 TLVs and BEIs

NIOSH – National Institute of Occupational Safety and Health

**Irritancy of Product:** Temporary mechanical irritation.

**Sensitization to Product:** Not applicable

**Carcinogenicity:**

Mineral fibres – Inadequate evidence in humans for the carcinogenicity of glass wool, continuous glass filaments, or rock (stone) wool/slag wool (IARC – Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Man. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-Present (Multi-volume work), (2002). Glass wool fibres are classified as A3 by ACGIH (Confirmed Animal Carcinogen with Unknown Relevance to Humans).

**Reproductive toxicity:** Not applicable

**Teratogenicity:** Not applicable

**Mutagenicity:** Not applicable

**Toxicologically synergistic products:** Not applicable

## SECTION 8 – PREVENTIVE MEASURES

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**Personal Protective Equipment (PPE) and Clothing:** Hand and arm protection should be worn. Safety shoes should be 15 cm. high and laced. Eye protection should also be used when there is potential for exposure to mineral fibre dust. Segregate used protective clothing and launder separately. At concentrations above the exposure limit (e.g. in confined or enclosed spaces with inadequate ventilation), respiratory protection is required. The appropriate type of respiratory protection depends on the process and contaminant concentrations, and should be selected by a qualified individual. When respiratory protection is required, the employer must develop a code of practice, and provide training and individual fit testing.

**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:** Recycle any unused portions for its approved use or return it to the manufacturer or supplier. Ultimate disposal must consider the material's impact on air quality; effects on animal, aquatic and plant life; and conformance with environmental and public health regulations. Check local legislation and disposal requirements.

**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:** Keep material in original packaging until it is to be used. Store the product to protect it against adverse conditions, including precipitation.

**Special shipping information:** This product is not regulated under transportation of dangerous goods legislation.

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## SECTION 9 – FIRST AID MEASURES

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### Specific First Aid Measures

**Skin:** If irritation persists after contact with mineral fibres, do not rub or scratch. Rinse under running water prior to washing with mild soap and water. Use a washcloth to help remove fibres. If irritation persists, consult a physician.

**Eyes:** Flush eyes with water for at least 15 minutes, occasionally lifting the lower and upper lids. Do not rub the eyes, consult with a physician if irritation persists.

**Inhalation:** For respiratory exposure to large amounts of mineral fibre, remove from exposure, drink water and blow nose to clear dusts and fibres from throat and nose. If irritation persists, consult a physician.

**Ingestion:** Ingestion of this product is unlikely and not intended under normal conditions of use. Immediately obtain medical attention.

This product is not regulated by WHMIS.

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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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