SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	WHMIS Classification
Lightweight cement panel	D2B, E

Product Use and generic description
Underlayment for wall

Prepared for:

Fransyl Ltd.
1845, Jean-Monnet
Terrebonne Qc. Canada J6X 4L7

Phone number		Date MSDS Prepared
450-477-4423		June 2010

SECTION 2 — COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	% by weight	CAS Number	LD50 of Ingredient *(sp cies and route)*	LC50 of Ingredient *(species)*
Portland Cement	10 - 30	65997-15-1	No data available	No data available
Silica, crystalline quartz	30 - 60	14808-60-7	No data available	No data available
Calcium Oxide	5 - 10	1305-78-8	No data available	No data available

Trace Elements: This product is made with Portland cement and pozzolans which are made from materials mined from the earth and processed using energy provided by fuels. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis. Trace constituents may include potassium and sodium sulfate compounds, chromium compounds, and nickel compounds.

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry ☒Skin contact ☐Skin absorption ☒Eye Contact ☒Inhalation ☒Ingestion

Emergency Overview

Products do not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. Dust generated is alkaline, and could cause corrosive damage to skin, tissues, and eyes. Wear eye and skin protection. This product also contains quartz (crystalline silica) as a naturally occurring contaminant. It is recommended that a NIOSH approved particulate respirator be worn whenever working with this product results in airborne dust exposure exceeding the prescribed limits.

WHMIS Symbols

Potential Health Effects

Inhalation: Acute exposure to airborne dust concentrations in excess of the exposure limits (see table in section 8) may result in coughing, dyspnea, wheezing, and a burning irritation of the nose, throat, and upper respiratory tract, along with possible impaired pulmonary function. Chro ic exposures may result in lung disease (silicosis and/or lung cancer). (See Section 11 - Toxicological Information). Good housekeeping practices and industrial hygiene monitoring is recommended when the potential for significant exposure exists.

Skin Contact: Wet product is alkaline. Contact with this product may cause severe irritation, redness, and possible burns. Continued and prolonged contact may result in drying of the skin. Contact with dust or glass

fibers may produce itching, rash and/or redness. Repeated or prolonged exposure may result in dermatitis.

Eye Contact: Contact with dust may cause burns and/or mechanical irritation and cause damage to the cornea. Do not wear contact lenses if dust will be generated.

Ingestion: Wet product is alkaline, and may cause chemical burns to the mouth, throat, esophagus and stomach. Gastrointestinal irritation or bleeding may develop.

SECTION 4 — FIRST AID MEASURES

Inhalation: Remove exposed individual to fresh air immediately. If breathing difficulty persists, seek medical attention.

Ingestion: Product is not intended to be ingested. Large amounts may cause abdominal discomfort or possible obstruction of the digestive tract. Seek medical attention if problems persist.

Skin Contact: Flush and wash skin with soap and water. Utilize lotions to alleviate dryness if present. Seek medical attention if irritation persists.

Eye Contact: Do not rub or scratch eyes. Immediately flush eyes with water for 15 minutes. Seek medical attention to evaluate for burns or scratches.

SECTION 5 — FIRE FIGHTING MEASURES

Flammability ☐Yes ☒No Not Flammable	**If yes, under which conditions?** Not applicable	
Means of Extinction: Dry chemical, foam, water, fog or spray		
Flashpoint (°C) and Method Not available	**Upper Flammable Limit (% by volume)** Not applicable	**Lower Flammable Limit (% by volume)** Not applicable
Auto-ignition Temperature (°C) Not available	**Explosion Data — Sensitivity to Impact** Not applicable	**Explosion Data — Sensitivity to Static Discharge** Not applicable
Hazardous Combustion Products None known		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

Wear appropriate Personal Protective Equipment (See Section 8) and maintain proper ventilation.

Pick-up larger pieces to avoid a tripping hazard. Sweep or vacuum remaining material into a waste container for disposal. Use a light water spray to minimize dust generation.

Dispose of in accordance with applicable federal, provincial, and local regulations.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment

Avoid contact with eyes, skin and clothing.

Wear recommended personal protective equipment when handling. (See Section 8)
Avoid breathing dust.

Minimize generation of dust.

Utilize proper lifting techniques w en moving product and employ mechanical/ergonomic assistance when possible (i.e. move with forklifts, hold in place with lifts) to minimize the risk of back injury.

Storage Requirements

Store material flat in a cool, dry, ventilated area, away from excessive heat, rain or sunlight.

Store panels flat to minimize damage.

Do not stack panels too high when storing to minimize the risk of falling

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits

Ingredient	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)	WHMIS (mg/m3)
Portland cement;	15 (T) 5(R)	10 (T)	10 (T) 5(R)
Silica, crystalline quartz	**Respirable:** 10 mg/m^3/(%SiO_2 + 2) TWA **Total**: 30 mg/m^3/(%SiO_2 + 2) TWA	0.1 (R)	0.1 (R)
Calcium Oxide	5 (T)	2 (T)	2 (T)

(T) = total dust
(R) = respirable dust

Specific Engineering Controls ***(such as ventilation, enclosed process)***

Work/Hygiene Practices: The score and snap method of cutting is recommended. Sawing, drilling or machining will produce dust.

Ventilation: Provide local and general exhaust ventilation to maintain a dust level below the PEL/TLV.

Utilize wet methods, when appropriate, to reduce generation of dust.

Personal Protective Equipment ☒ **gloves** ☒**Respirator** ☒**Eye** ☒**Footwear** ☒**Clothing** ☐**Other**

Respiratory Protection: A NIOSH approved particulate respirator is recommended in poorly ventilated areas or if the exposure limits are exceeded (see table above)

Eye Protection: Safety glasses or goggles.

Skin: Wear PVC or nitrile coated gloves and protective clothing. Wash exposed skin and clothing if dust was generated during handling.

Feet: Product is heavy and may injure feet if dropped. Wear CSA approved hard toe footwear.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid	**Odour and Appearance :** Low odor, grey color	**Odour Threshold (ppm):** Not known
Specific Gravity : 1.2	**Vapour Density (air = 1) :** Not applicable	**Vapour Pressure (mmHg) :** Not applicable
Evaporation Rate : Not applicable	**Boiling Point (°C) :** Not applicable	**Freezing Point (°C) :** Not applicable
pH : Very alkaline, 10 to 13 approx.	**Coefficient of Water/Oil Distribution :** Not applicable	**Solubility in Water :** Not soluble

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability ☒Yes ☐No	**If no, under which conditions?**
Incompatibility with Other Substances ☒Yes ☐No	**If yes, which ones?** Powerful oxidizers: Hydrofluoric acid, fluorine, chlorine trifluoride or oxygen difluoride, manganese trioxide, hydrogen peroxide, acetylene; ammonia, etc.
Dangerous polymerizations? Stable under dry conditions.	
Hazardous Decomposition Products: None known.	

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure:
There have been reports of irritation and burns to mucus membranes of the eyes and respiratory tract upon acute exposure to dusts in excess of the recommended limits.

Effects of Chronic Exposure:
Crystalline silica is a significant component of the earth's crust, and many workers in a wide range of industries are exposed to it, usually in the form of respirable quartz or, less frequently, cristobalite. Chronic exposure to crystalline silica (a naturally occurring contaminant) in the respirable size has been shown to cause silicosis, a debilitating lung disease. International Agency for Research on Cancer (IARC) has designated crystalline silica as a known human carcinogen. Exposure to crystalline silica has also been associated with an increased risk of developing tuberculosis and other nonmalignant respiratory diseases, as well as renal and autoimmune respiratory diseases.

Irritancy of Product
Possible irritation and burns to mucus membranes of the eyes and respiratory tract.

Skin Sensitization This product is made with Portland Cement which may contain hexavalent chromium (chromium$_{+6}$) salts. People with unusual (hyper) sensitivity may experience skin sensitization.	**Respiratory Sensitization** Pre-existing upper respiratory and lung diseases conditions may lead to respiratory sensitization.
Carcinogenicity — IARC This product may contain crystalline silica, the International Agency for Research on Cancer (IARC) classifies crystalline silica inhaled in the form of quartz or cristobalite from occupational sources as carcinogenic to humans, Group 1.	**Carcinogenicity — ACGIH** The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).
Reproductive Toxicity : None known	**Teratogenicity:** None known
Embryotoxicity : None known	**Mutagenicity:** None known
Name of Synergistic Products/Effects: None known	

SECTION 12 — ECOLOGICAL INFORMATION

This product could be toxic to fish due to its high alkalinity. No know unusual toxicity to plants or animals. No studies are available. This product is not biodegradable.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal
Dispose of according to Local, Federal, nd Provincial Environmental Regulations. Recycle this product and its packaging if possible.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information: Use tarps and rigid protective corners to protect the product against damages by wind and binding straps.	**PIN :** Not applicable
TDG : Not dangerous, not classified.	**DOT:** Not hazardous
IMO : Not dangerous, not classified.	**ICAO :** General cargo, not dangerous.

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification: D2B, E

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

ACGIH - American Conference of Governmental Industrial Hygienists (USA)
CAS - Chemical Abstracts Service
CSA : Canadian Standard Association.
IARC - International Agency for Research on Cancer
ICAO: International Civil Aviation Organization
IMO: International Maritime Organization
NFPA: National Fire Protection Association (USA)
OSHA - Occupational Safety and Health Administration (USA)
PEL - Permissible Exposure Limit
PIN : Product Identification Number (Transport Canada)
TDG: Transport Dangerous Goods Directorate
TLV's - Threshold Limit Values
TWA: Time-Weighted Average

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MATERIAL INFORMATION SHEET

ELASTOMERIC MEMBRANE

IMPORTANT: Read this Material information Sheet before handling or disposing of this product. This product safety information is provided to help our customers assess compliance with health, safety and/or environmental regulations. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product. (Note: Includes products formerly found on MIS #1702)

NOTE: Under government regulations a MSDS is not required for this material: it is an end use product.

SECTION 1 : PRODUCT AND SUPPLIER INFORMATION

Prepared for :	Fransyl Ltd
Address :	1845, rue Jean-Monnet Terrebonne, Qc J6X 4L7 (450) 477-4423
Chemical name:	Not applicable
Trade name:	Modified Bitumen Roofing
Chemical Family:	Not applicable
Formula:	Mixture of asphalt, polymers, inert mineral filler, surfacing, and talc.

SECTION 2: Preparation Information

Prepared By:	Yves Lanctôt
Phone number:	(450) 477-4423
Date of Preparation:	Jun e 2010

SECTION 3 : HAZARDOUS INGREDIENTS

Asphalt, trap rock dust and/or calcium carbonate, fiberglass, polyester, plastic polymers and/or styrene rubbers. Contain no solvent or asbestos.

SECTION 4 : PHYSICAL DATA

Boiling Point:	Not Applicable
Specific Gravity :	>1.0
Vapor Pressure :	Not Applicable
Evaporation Rate :	Not Applicable
Solubility in Water :	Insoluble
Appearance :	Various colors, sheet material
Odor :	Slight petroleum odor

ELASTOMERIC MEMBRANE

SECTION 5: FIRE AND EXPLOSION DATA

Flash Point :	Not Applicable
Flammable Limits :	Not Applicable
Extinguishing Media:	Dry chemical, carbon dioxide : water fog
Special Procedure:	Respirators required for fire fighting

SECTION 6 : TOXICOLOGICAL PROPERTIES

Exposure Limits:	Not applicable
Primary Route of exposure:	Skin Contact
Exposure Effects	Possible skin irritation and dermatitis

SECTION 7: REACTIVITY DATA

Stability:	Stable
Polymerization:	Will not occur
Materials to avoid Hazardous:	Strong oxidizers
Decompositions Products	CO_2, CO

SECTION 8: PRENVENTIVE MEASURES

Spill Procedure:	Normal housekeeping
Disposal Procedure:	Follow federal, provincial/state and municipal regulations
Ventilation:	Not necessary
Respiratory:	Not necessary
Gloves:	Minimize skin contact. Protective gloves may be used when handling material.
Eye Protection:	Use safety glasses or goggles when necessary.
Other:	If contact is unavoidable, wear all necessary protective gear

SECTION 9 : FIRST AID PROCEDURES

Wash hands with soap and water after handling

End