



Climatizer CellPave™ Specialty Fibres

Safety Data Sheet

According to Canadian Hazardous Products Regulation (SOR/2015), Part IV
According to OSHA Hazard Communication Standard Regulation 29 CFR 1910.1200
According to Regulation of the Commission (EU) No. 453/2010

SECTION 1: IDENTIFICATION

Product Identifier: CELLPAVE™ Specialty Fibre
Synonyms: SMA Cellulose Fibre
Chemical Family: Cellulose Fibres
Recommended Use: For use as a stabilizer additive in Stone Mastic Asphalt road paving applications
Manufacturer: Climatizer Insulation: 120 Claireville Drive, Etobicoke, ON M9W5Y3
Contact Information: t: 416-798-1235 f: 416-798-1311 www.climatizer.ca | info@climatizer.ca

SECTION 2: HAZARD IDENTIFICATION

CELLPAVE™ contains High Calcium Limestone, containing mostly Calcium carbonate, with smaller composition of Magnesium carbonate, and crystalline Silica (Quartz).

GHS Classification: Physical Hazards: None

Hazard Classification: Carcinogenicity Category 1A
Skin Irritation Category 3
Eye Irritation Category 2B
Specific Target Organ Toxicity—Repeated Exposure Category 1

Precautionary Statements: Obtain special instructions before use; Do not handle until all safety precautions have been read and understood; Use personal protective equipment (PPE) as required and do not inhale dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Hazard Pictogram:



Signal Word: Danger

SECTION 3: COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Component	CAS #	% By Weight
Cellulose Fiber C ₆ H ₁₀ O ₃	65996-61-4	≤ 88%
High Calcium Limestone	471-34-1	≤ 13%



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SECTION 4: FIRST AID MEASURES

Eye Contact:	For severe dust exposure, flush eyes with warm water for 15 minutes. If irritation persists, seek medical attention. No known acute hazard.
Skin Contact:	If broken skin is exposed, wash with soap and water. If irritation persists, seek medical attention. No known acute hazard.
Inhalation:	Dust may irritate the nasal/respiratory passages. Please wear NIOSH N95 respirator when exposed to dust. If irritation or difficulty breathing occurs, remove exposed person to fresh air. If irritation persists, seek medical attention. No known acute hazard.
Ingestion:	If ingestion occurs, symptoms may include diarrhea, nausea and vomiting. Seek medical attention if material was ingested and symptoms occur. No known acute hazard.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Any available media rated for wood fire. Use Type A rated extinguisher.
Unsuitable Extinguishing Media:	None.
Explosion Data:	Fine dust dispersed in air MAY cause combustion if in sufficient concentration and in the presence of an ignition source.
Combustion Products:	Products of combustion may include but not limited to oxides of carbon (carbon monoxide, carbon dioxide).
Fire Fighting Instructions:	Use standard procedures with full PPE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Nuisance dust; Do not inhale dust; wear dust mask if respiratory sensitivities or illness pre-exist.
Emergency Procedures:	N/A
Environmental Precautions:	Untreated cellulose fibres are biodegradable and will not cause damage to vegetation via root absorption. This product will not cause localized contamination of surrounding waters and poses no known hazard to aquatic life.
Clean up Procedures:	Sweep, shovel and/vacuum released material and place in labelled containers for disposal in accordance with

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Avoid breathing dust. Do not swallow. Handle and open package with care. Good housekeeping practices are recommended. When using, do not eat, drink, or smoke. Launder contaminated clothing before reuse. Hand washing before eating or drinking recommended. Use of PPE always recommended.
Storage:	Covered indoor storage is recommended (ambient temperature and pressure). Store in original, undamaged packaging. Store away from explosive and oxidative substances, keep away from sources of ignition, smoking, or temperatures above 82°C (180°F). Keep out of reach of children. Keep packaging closed and dry.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use standard good housekeeping practices to minimize potential dust generation and accumulation. Use in a processing environment designed to contain combustible dusts, which is free of ignition sources and has an explosion and fire suppression system. Ventilation requires local exhaust.
Eye Protection:	Use goggles or eye protection.
Hand Protection:	Not required. If skin is broken or sensitive, wear suitable gloves.
Respiratory Protection:	NIOSH approved respirator N-95.
Hygiene Measures:	Handle according to standard hygiene





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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Water Solubility:	Insoluble, Dispersible
Appearance:	Grey-fibrous	Boiling/Freezing Point:	Not Applicable
Odour:	paper/newsprint	Flash Point:	≥ 550°F (288°C)
Odour Threshold:	Low to no odour	Explosive Limits:	Not Applicable
Evaporation Rate:	Not Applicable	Vapour Pressure:	Negligible at 20°C
Flammability (Solid, gas):	Not Applicable	Partition Coefficient:	Not established
Vapour Density:	Not Applicable	Auto-Ignition Temperature:	Not Applicable
pH:	6.0 to 8.0	Decomposition Temperature:	>392°F/20
Relative Density:	Not Applicable	Viscosity:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability of Product:	Stable under normal processing/storage conditions (see Section 7)
Conditions of reactivity:	Avoid extreme heat and flame, >392°F/200°C, may be combustive dust. Explosion may release harmful gases.
Hazardous decomposition products:	Not Known.
Incompatibility:	Cellulose: Concentrated acids or oxidizing agents. Limestone: reactive fluoridated, brominated or phosphorous compounds; aluminum; ammonium salt; mercury; hydrogen, magnesium; reactive powdered metals, organic acid anhydrides; nitro-organic compounds; interhalogenated compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

CELLULOSE FIBRE:

Acute Toxicity:	OSHA PEL-TWA = 15mg/m ³ total dust (PNOR)
	OSHA PEL-TWA = 5mg/m ³ respirable fraction (PNOR)
	Cal OSHA PEL = 5mg/m ³ total dust (PNOR)
	ACGIH TLV-TWA = 10 mg/m ³ inhalable (PNOS)
	ACGIH TLV-TWA = 3 mg/m ³ respirable (PNOS)
	LC ₅₀ (Inhalation, rat): >5.8 mg/L
	LD ₅₀ (oral, rat): >5000 mg/kg of body weight
	LD ₅₀ (dermal, rabbit): >2000 mg/kg of body weight

LIMESTONE:

Acute Toxicity:	OSHA PEL-TWA = 15mg/m ³ total dust (PNOR)
(Calcium Carbonate/ Magnesium Carbonate)	OSHA PEL-TWA = 5mg/m ³ respirable fraction (PNOR)
	ACGIH TLV-TWA = 10 mg/m ³ inhalable (PNOS)
	ACGIH TLV-TWA = 10 mg/m ³ inhalable (PNOS)
Acute Toxicity:	OSHA PEL-TWA = 30mg/m ³ total dust (PNOR)
(Silica—Quartz)	OSHA PEL-TWA = 10mg/m ³ respirable fraction (PNOR)
	ACGIH TLV-TWA = 0.025mg/m ³ respirable (PNOS)
	LD ₅₀ (oral, rat): 6450 mg/kg of body weight

Limestone Composition	CAS #	% By Weight
Calcium Carbonate	471-34-1	>90
Magnesium Carbonate	546-93-0	<5
Silica—Crystalline quartz	14808-60-7	0.1-1



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TOXICOLOGICAL EFFECTS ON FOLLOWING ROUTES OF EXPOSURE

Skin Contact:	Dermal exposure is not typical as cellulose and limestone are poorly absorbed by the skin. Possible Irritant after long exposure.
Eye Contact:	Irritant; prolonged exposure to dust may cause irritation, including redness, pain, and inflammation of the eyelids.
Inhalation:	Possible irritant. May irritate nose, throat and lungs.
Ingestion:	Not intended for consumption; ingestion of small amount not likely to cause harm; larger quantities may cause gastrointestinal discomfort but will pass through body system.
Chronic Toxicity:	No known chronic effects have been associated with this product.
Carcinogenicity:	This product is not considered to be a potential carcinogenic by OSHA, ACGIH, NTP, or IARC.
Germ Cell Mutagenicity:	No Information found.
Reproductive Toxicity:	No Classification found.

Special Considerations:	Regarding Quartz (crystalline silica), contamination of limestone in excess of 2% may pose a risk of silicosis, a lung disease. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has been associated with silicosis. Symptoms of silicosis may include, but are not limited to: shortness of breath, difficulty breathing with/without exertion, coughing, diminished work capacity, diminished chest expansion, reduction of lung volume, right heart enlargement and/failure. Smoking may increase the risk of developing lung disorders. Not all individuals with silicosis exhibit symptoms. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Several studies of persons with silicosis also indicate an increased risk of developing lung cancer, a risk that increases with the duration of exposure. Some of these studies of silicotics do not consider the impact of lung cancer cofactors, especially smoking.
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SECTION 12: ECOLOGICAL INFORMATION

Ecological Toxicity:	This product has no known eco-toxicological effects. Not listed as a known marine pollutant according to the IMDG Code. Not known as environmentally hazardous according to UN Model Regulations. ADR, RID, and ADN.
Biodegradation:	Not tested.
Bioaccumulative Potential:	None.
Mobility in soil:	Not tested.
Other adverse effects:	Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

As a non-hazardous waste, dispose in accordance with all municipal, provincial, state and federal regulations. Packaging can be recycled.

SECTION 14: TRANSPORT INFORMATION

Climatizer CELLPAVE™ may be shipped normally as a non-hazardous material. It is currently not regulated. Climatizer CELLPAVE™ is not a DOT Hazardous Substance. No special handling is required.

In case of Spill:	Shovel or sweep and place in container for disposal.
Environmental Hazards:	None.



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SECTION 15: REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Act (HPA) and the Controlled Products Regulations (CPR); Not considered a controlled product or not listed under WHMIS

This product complies with OSHA Regulation 29 CFR.1910.1200. Cellulose dust is a regulated hazard.

All ingredients of this product are either listed in EPA TSCA Inventory or exempt from said inventory requirements under 40 CFR 720.30.

This product is not listed on any California Proposition 65 lists of carcinogens or reproductive toxicants.

This product complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008 and the European Council Directives 67/548/EEC and 1999/45/EC.

This product is not listed on the International Agency for Research on Cancer (IARC) as a carcinogen. However, The IARC (US) lists silica dust as a Group 1 carcinogen.

This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III Section 313 and 40 CFR section 372.

This product is not regulated under the SDWA, 42 USC 300g-1, 40 CFR141 et seq. (US)

SECTION 16: OTHER INFORMATION

GLOSSARY

ACGIH:	American Conference of Governmental Industrial Hygienists (USA)	ASTM:	American Society for Testing and Materials (USA)
CAS:	Chemical Abstract Services	IARC:	International Agency for Research on Cancer
LD₅₀/LC₅₀:	Less high lethal dose and lethal concentration published	NTP:	National Toxicology Program (USA)
OSHA:	Occupational Safety & Health Administration (USA)	SOR:	Statutory Orders and Regulations (Canada)
TLV-TWA:	Threshold Limit Value –Time Weighted Average	TDG:	Transportation of Dangerous goods (Canada)
SDWA:	Safe Drinking Water Act	DOT:	Department of Transportation

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