



MATERIAL SAFETY DATA SHEET

SECTION 1: Product and Company Identification

Product Identifier:	Cellulose Fibre Insulation	Product Name:	a) Climatizer Plus (33lbs) b) Weathershield™ Insulation (25lbs)
Synonyms:	Cellulose Insulation	Manufacturer:	Climatizer Insulation 120 Claireville Drive Etobicoke, Ontario M9W5Y3
Description:	Paper fibres treated with fire Retardants	EMERGENCY PHONE:	416-798-1235 (M-F 8am-6pm)
Product Type:	Loose-filled thermal/acoustical Insulation		

SECTION 2: Composition/Information on Ingredients

COMPONENT/CAS#	CAS #	% BY WEIGHT	EXPOSURE LIMITS
Cellulose fibres (recycled paperstock) C ₆ H ₁₀ O ₃	#65996-61-4	Not more than 87%	PEL/TWA = 15mg/m ³ total dust (PNOC) PEL/TWA = 5mg/m ³ respirable fraction TLV/TWA = 10mg/m ³ inhalable (PNOC) TLV/TWA = 3mg/m ³ respirable fraction
Boric Acid H ₃ BO ₃	#10043-35-3	Not more than 10%	TLV/TWA = 10mg/m ³ inhalable (PNOC)
Ammonium Sulphate (NH ₄) ₂ SO ₄	#7783-20-2	Not more than 10%	PEL/TWA = 10mg/m ³ total dust (PNOC) TLV/TWA = 10mg/m ³ inhalable (PNOC)
Mono-Ammonium Phosphate NH ₄ H ₂ PO ₄	#7722-76-1	Not more than 2%	PEL/TWA = 10mg/m ³ total dust (PNOC) TLV/TWA = 10mg/m ³ inhalable (PNOC)

SECTION 3: Hazard Identification

Emergency Overview

Avoid contact with extreme heat sources and open flame – may emit carbon monoxide and other toxic decomposition products when burned. Although treated to be fire resistant, service temperature should not exceed 90% continuously. Climatizer Plus and Weathershield™ Insulation presents no unusual hazard if involved in a fire.

Potential Health Effects

Inhalation is the most significant route of exposure in occupational and other settings. Mild irritation of the respiratory tract is possible. The National Toxicology Program has classified CFI products like Climatizer Plus and Weathershield™ Insulation a “nuisance dust” (PNOC, Particulate Not Otherwise Classified) – respiratory protection is recommended during installation or other handling of the products. Chemically sensitive individuals should avoid dust exposure during installation periods.

Climatizer Plus and Weathershield™ Insulation (fibres and additives) are not considered carcinogenic by any authority.

Animal studies suggest that high-level exposure to borates can produce reproductive effects in male animals. Similar studies showed developmental effects in foetuses of pregnant animals. Human studies of occupational exposure to borates showed no adverse effect to reproduction. No target organ has been identified in humans.



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SECTION 4: Physical Data

APPEARANCE:	Soft, Fluffy Grey Colour	WATER SOLUBILITY:	Paper fibre negligible, chemical additives slight/moderate
ODOUR:	Low odour	VAPOUR PRESSURE:	N/A
BOILING POINT:	N/A	VAPOUR DENSITY:	N/A
MELTING/FREEZING POINT:	N/A	COEFFICIENT OF WATER/OIL DISTRIBUTION:	Not established
FLASH POINT:	N/A		
FIRE EXPLOSION:	N/A		
pH:	6.8 to 8.5 (20g in 150mL H ₂ O)		

SECTION 5: Fire or Explosion Measures

Although Climatizer Plus and Weathershield™ Insulation is treated to be fire resistant, thermal decomposition can occur when in prolonged contact with extreme temperatures and open flame.

Suitable Extinguishing Media:	Any available media. Use Type A rated extinguisher.
Unsuitable Extinguishing Media:	None
Special Hazards:	None
Required PPE for Fire Fighters:	Standard Protective equipment

SECTION 6: Reactivity Data

Stability of Product:	Stable
Conditions/Materials to Avoid:	Strong reducing agents and strong oxidizing agents
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will not occur

SECTION 7: Toxicological Properties

Excessive exposure may have the following effects in humans:

Skin contact:	non-irritant based on standard Draize Test, LD ₅₀ (boric acid, human) 1200mg/kg (no effect on intact skin)
Eye contact:	possible irritant based on positive Draize Test in rabbits, no irritation reported for humans
Inhalation:	possible irritant – may irritate nose and throat – LD ₅₀ (boric acid, rat) 28mg/m ³ /4H
Ingestion:	(not intended) possible irritant LD ₅₀ (boric acid, human) 429mg/kg

SECTION 8: Preventative Measures

Engineering Controls:	No specific controls are needed. Use standard good housekeeping practices to minimize potential dust generation and accumulation.
Eye Protection:	Not required. If excessive dust is present, approved eye protection is optional.
Hand Protection:	Not required. If skin is broken, wear gloves.
Respiratory Protection:	NIOSH approved respirator N-95
Ventilation:	Local exhaust
Hygiene Measures:	Standard hygienic practices.





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SECTION 9: First Aid Measures

Eye Contact	For severe dust exposure, flush eyes with warm water for 15 minutes. If irritation persists, seek medical attention
Skin Contact	If broken skin is exposed, wash with soap and water. If irritation persists, seek medical attention
Inhalation	If irritation or difficulty breathing occurs, remove exposed person to fresh air. If irritation persists, seek medical attention
Ingestion	If ingestion occurs, symptoms may include diarrhea, nausea and vomiting. Seek medical attention if material was ingested and symptoms occur

Note to Physicians: Severe exposure to dust may aggravate symptoms of environmentally sensitive persons or those with pre-existing respiratory conditions.

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