



# MATERIAL SAFETY DATA SHEET

## SECTION 1: Product and Company Identification

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

## SECTION 2: Composition/Information on Ingredients

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



# MATERIAL SAFETY DATA SHEET

## SECTION 4: Physical Data

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

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

## SECTION 6: Reactivity Data

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

## SECTION 7: Toxicological Properties

Excessive exposure may have the following effects in humans:

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

## SECTION 8: Preventative Measures

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





# MATERIAL SAFETY DATA SHEET

## SECTION 9: First Aid Measures

Eye Contact	For severe dust exposure, flush eyes with warm water for 15 minutes. If irritation persist, 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.

Disclaimer: Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law or regulation. The user is responsible to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim with respect to use any material supplied by us.

Prepared by: CLIMATIZER INSULATION Tel: 416-798-1235 • Fax: 416-798-1311  
Email: [info@climatizerinsulation.com](mailto:info@climatizerinsulation.com)  
Web: [www.climatizerinsulation.com](http://www.climatizerinsulation.com)