





# Climatizer Plus™ Cellulose Insulation

## Safety Data Sheet

Canadian Regulation SOR/88-66, SOR/2016-177  
OSHA Regulation 29 CFR 1910.1200

### SECTION 5: FIRE-FIGHTING MEASURES

Although Climatizer Plus™ Cellulose Insulation is chemically treated for superior fire resistance, thermal decomposition can occur when in prolonged contact with extreme temperature and open flame.

<b>Flammability:</b>	Not flammable	<b>Suitable Extinguishing Media:</b>	Any available media rated for wood fire. Use Type A rated extinguisher
<b>Special Hazards:</b>	None	<b>Unsuitable Extinguishing Media:</b>	None
<b>Flash Point:</b>	≥ 550°F (288°C)	<b>Explosion Data:</b>	No sensitivity to mechanical charge. Can accumulate static charge by flow
<b>Auto-Ignition Temp:</b>	No data available	<b>Combustion Products:</b>	Products of combustion may include but not limited to oxides of carbon

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Nuisance dust; wear dust mask if respiratory sensitivities or illness pre-exist.
<b>Emergency Procedures:</b>	N/A
<b>Environmental Precautions:</b>	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.
<b>Clean up Procedures:</b>	Sweep, shovel and/vacuum released material and place in containers for disposal in accordance with applicable

### 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.

**Storage:** Covered indoor storage is recommended (ambient temperature and pressure). Do not store near open flame or temperatures above 82°C (180°F). Keep out of reach of children.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Permissible Exposure Limits:</b>	OSHA PEL-TWA = 15mg/m <sup>3</sup> total dust (PNOC) OSHA PEL-TWA = 5mg/m <sup>3</sup> respirable fraction OSHA PEL-TWA = 10mg/m <sup>3</sup> total dust	<b>Threshold Limit Values:</b>	ACGIH TLV-TWA = 10mg/m <sup>3</sup> inhalable (PNOC) ACGIH TLV-TWA = 5mg/m <sup>3</sup> respirable fraction
<b>Engineering Controls:</b>	No specific controls are needed. Use standard good housekeeping practices to minimize potential dust generation and accumulation. Ventilation requires local exhaust.		
<b>Personal Protective Measures:</b>			
<b>Eye Protection:</b>	Not required. If excessive dust present, approved eye protection is recommended.		
<b>Hand Protection:</b>	Not required. If skin is broken, wear suitable gloves.		
<b>Respiratory Protection:</b>	NIOSH approved respirator N-95.		



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid	<b>Water Solubility:</b>	Insoluble, Dispersible
<b>Appearance:</b>	Grey-fibrous	<b>Boiling Point:</b>	Not Applicable
<b>Odour:</b>	Low to no odour	<b>Flash Point:</b>	≥ 550°F (288°C)
<b>Explosive Limits:</b>	None	<b>Evaporation Rate:</b>	Not Applicable
<b>Vapour Pressure:</b>	N/A	<b>Flammability (Solid, gas):</b>	N/A
<b>Odour Threshold:</b>	N/A	<b>Partition Coefficient:</b>	Not established
<b>Vapour Density:</b>	N/A	<b>Auto-Ignition Temperature:</b>	>250°C
<b>pH:</b>	6.8 to 8.5 (20g in 150mL H <sub>2</sub> O)	<b>Decomposition Temperature:</b>	Not established
		<b>Relative Density:</b>	N/A

SECTION 10: STABILITY AND REACTIVITY

<b>Stability of Product:</b>	Stable under normal storage conditions
<b>Conditions of reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products:</b>	May include but not limited to oxides of carbon.
<b>Incompatibility:</b>	Chlorates, Nitrates, Strong Oxidizers, and reducing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	This product is considered to exhibit low acute toxicity.
<b>Chronic Toxicity:</b>	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.

TOXICOLOGICAL DATA:

<b>Cellulose:</b>		<b>Boric Acid:</b>	
LC <sub>50</sub> (Inhalation, rat):	>5.8 mg/L	LC <sub>50</sub> (Inhalation, rat):	>2.01mg/L
LD <sub>50</sub> (oral, rat):	>5000 mg/kg of body weight	LD <sub>50</sub> (oral, rat):	>2550 mg/kg of body weight
LD <sub>50</sub> (dermal, rabbit):	>2000 mg/kg of body weight	LD <sub>50</sub> (dermal, rabbit):	>2000 mg/kg of body weight
<b>Ammonium Sulphate:</b>			
LD <sub>50</sub> (inhalation, rat)	>1000mg/m <sup>3</sup> , 8 hours		
LD <sub>50</sub> (oral, rat)	>2840mg/kg of body weight		

TOXICOLOGICAL EFFECTS ON FOLLOWING ROUTES OF EXPOSURE:

<b>Skin Contact:</b>	Non-irritant. No effect on intact skin.
<b>Eye Contact:</b>	Non-irritant in normal conditions; prolonged exposure may cause irritation.
<b>Inhalation:</b>	Possible irritant. May irritate nose, throat and lungs.
<b>Ingestion:</b>	Not intended for consumption: ingestion of small amount is not likely to cause harm; larger quantities

SECTION 12: ECOLOGICAL INFORMATION

**CELLULOSE FIBRE**

- Ecological Toxicity:** This product has no known eco-toxicological effects
- Biodegradation:** Biodegrades slowly in water (half-life range 1 month-1year in freshwater and coastal seawater);
- Bioaccumulative Potential:** Not significant.
- Mobility in Soil:** No Known negative effects.

**BORIC ACID**

- Ecological Toxicity:** Based on the acute data for freshwater species, Boric Acid is not classified as hazardous to the environment
- Biodegradation:** Biodegradation is not an applicable endpoint as Boric Acid is not an inorganic substance; Boron is naturally occurring and ubiquitous in the environment.
- Bioaccumulative Potential:** This product will undergo hydrolysis in water to form undissociated Boric Acid. Boric Acid will not bioaccumulate through the food chain
- Mobility in Soil:** Boric Acid is soluble in water and is leachable through normal soil. Absorption to soils or sediments is insignificant.

**MAGNESIUM SULPHATE:**

- Ecological Toxicity:** Fish (Leuciscusidus) LC<sub>50</sub>, >460mg/l, 96 hours; Daphnia Magna LC<sub>50</sub> 423mg/l, 25 hours
- Biodegradation:** Biodegrades readily
- Bioaccumulative Potential:** LogP<sub>ow</sub>= -5.1, low potential

SECTION 14: TRANSPORT INFORMATION

Climatizer Plus cellulose insulation may be shipped normally as a non-hazardous material. It is currently not regulated.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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) and complies with Canadian Regulation SOR/88-66.

This product complies with OSHA Regulation 29 CFR.1910.1200.

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.

Not listed on the International Agency for Research on Cancer (IARC) as a carcinogen.

This product is included in the scope of Climatizer Insulation's Quality Management System certified according to the ISO 9001:2015 Standard.



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### SECTION 16: OTHER INFORMATION

#### GLOSSARY

<b>ACGIH:</b> American Conference of Governmental Industrial Hygienists (USA)	<b>ASTM:</b> American Society for Testing and Materials (USA)
<b>CAS:</b> Chemical Abstract Services	<b>IARC:</b> International Agency for Research on Cancer
<b>LD<sub>50</sub>/LC<sub>50</sub>:</b> Less high lethal dose and lethal concentration published	<b>NTP:</b> National Toxicology Program (USA)
<b>OSHA:</b> Occupational Safety & Health Administration (USA)	<b>SOR:</b> Statutory Orders and Regulations (Canada)
<b>TLV-TWA:</b> Threshold Limit Value –Time Weighted Average	<b>TDG:</b> Transportation of Dangerous goods (Canada)

<b>Prepared By:</b>	Climatizer Insulation
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