



Climatizer Plus™ Cellulose Insulation

Safety Data Sheet

Canadian Regulation SOR/88-66, SOR/2016-177

OSHA Regulation 29 CFR 1910.1200

SECTION 1: IDENTIFICATION

Product Identifier:	Cellulose Fibre Insulation
Product Name:	CLIMATIZER PLUS™ Cellulose Insulation
Synonyms:	Cellulose Insulation
Description:	Paper fibres treated with fire retardant
Recommended Use:	For use in walls, ceilings, floors, and attics of residential, commercial and industrial buildings/dwellings
Manufacturer:	Climatizer Insulation: 120 Claireville Drive, Etobicoke, ON M9W5Y3

SECTION 2: HAZARD IDENTIFICATION

This product is not considered hazardous under the criteria of the following agencies: Canadian Regulation SOR/88-66; Federal OSHA Hazard Communication Standard 29CFR 1910.1200; and European Regulations (EC) No. 1907/2006 and No. 1272/2008 and the European Council Directives 67/548/EEC and 1999/45/EC

Hazard Classification:	None	Hazard Statements:	None
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SECTION 3: COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Component	CAS#	% BY WEIGHT	EXPOSURE LIMITS OSHA PEL
Newsprint (Cellulose Fibre) $C_6H_{10}O_3$	#65996-61-4	≤ 87%	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)
Boric Acid H_3BO_3	#10043-35-3	≤ 10%	OSHA PEL-TWA = 15mg/m ³ total dust (PNOR) OSHA PEL-TWA = 5mg/m ³ respirable fraction (PNOR) Cal OSHA PEL = 5mg/m ³ respirable fraction (PNOR) ACGIH TLV-TWA = 2 mg/m ³ inhalable
Ammonium Sulphate $(NH_4)_2SO_4$	#7783-20-2	≤ 10%	OSHA PEL-TWA = 15mg/m ³ total dust (PNOR) OSHA PEL-TWA = 5mg/m ³ respirable fraction (PNOR) Cal OSHA PEL = 10mg/m ³ total dust (PNOR) ACGIH TLV-TWA = 10 mg/m ³ inhalable (PNOS) ACGIH TLV TWA = 3 mg/m ³ respirable (PNOS)

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
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

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



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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.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Nuisance 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 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

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



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	This product is considered to exhibit low acute toxicity.
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.

TOXICOLOGICAL DATA:

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

TOXICOLOGICAL EFFECTS ON FOLLOWING ROUTES OF EXPOSURE:

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

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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) LC₅₀, >460mg/l, 96 hours; Daphnia Magna LC₅₀ 423mg/l, 25 hours
- Biodegradation:** Biodegrades readily
- Bioaccumulative Potential:** LogP_{ow}= -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

ACGIH: American Conference of Governmental Industrial Hygienists (USA)
CAS: Chemical Abstract Services
LD₅₀/LC₅₀: Less high lethal dose and lethal concentration published
OSHA: Occupational Safety & Health Administration (USA)
TLV-TWA: Threshold Limit Value –Time Weighted Average

ASTM: American Society for Testing and Materials (USA)
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program (USA)
SOR: Statutory Orders and Regulations (Canada)
TDG: Transportation of Dangerous goods (Canada)

Prepared By: Climatizer Insulation
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