

# Material Safety Data Sheet

# U.S. Department of Labor

May be used to comply with

OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

Occupational Safety and Health  
 Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

IDENTITY <i>(As Used on Label and List)</i> Polar Barrier Standard Cellulose Insulation (PB-LF)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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## Section I

Manufacturer's Name Insolution Mfg., LLC	Emergency Telephone Number (763) 478-4540
Address <i>(Number, Street, City, State, and ZIP Code)</i> 23230 West Thomas Blvd.	Telephone Number for Information (763) 478-4540
Loretto, MN 55357	Date Prepared July 28, 2008

## Section II - Hazard Ingredients/Identity Information

This product contains boric acid. Boric acid is hazardous under the OSHA Hazard Communication Standard based on animal chronic toxicity studies on similar inorganic borate chemicals.

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
Ammonium Sulfate (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> CAS 7783-20-3	None Established	None Established	None Known	0-15
Boric Acid H <sub>3</sub> BO <sub>3</sub> CAS:10043-35-3	Total 15 mg/m <sup>3</sup> Respirable 5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	None Known	0-15
Wheat Starch CAS: 9005-25-8	None Established	None Established	None	0-5
Non-hazardous dust control agent Mixture	None Established	TWA 10 mg/m <sup>3</sup> (estimated)	None	0-1

Cellulose Particulates (nuisance dust)	Total	15	10 mg/m <sup>3</sup>	None
	Respirable	5	5 mg/m <sup>3</sup>	

### Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water N/A			
Appearance and Odor fiberized paper, gray, slight odor			

### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water, Water fog, Chemical Extinguishers, Carbon Dioxide (CO <sub>2</sub> )			
Special Fire Fighting Procedures Produces dense smoke. Use self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards Charred, burned, or smoldering insulation must be removed from building to prevent re-kindle.			

### Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
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	Stable	X	
Incompatibility ( <i>Materials to Avoid</i> ) chlorates, nitrates, basic substances, strong oxidizers or reducing agents			
Hazardous Decomposition or Byproducts Combustion products like that of paper or wood			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

### Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? nuisance dust	Skin? Temporary Mechanical irritant	Ingestion? yes
Health Hazards ( <i>Acute and Chronic</i> ) Polar Barrier may cause eye irritation when blown with air during installation.			
Nuisance dust which may cause nose or throat irritation.			
Gastrointestinal symptoms may result from ingestion.  No target organ in humans has been identified for Boric Acid or DiSodium Octaborate. No adverse effects of Boric Acid on reproduction have been identified.			
Carcinogenicity: No	NTP? No	IARC Monographs? None known	OSHA Regulated? No
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure  Respiratory disorders			
Emergency and First Aid Procedures N/A			

### Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	
No special care required.	
Waste Disposal Method	
No special care required.	
Precautions to Be taken in Handling and Storing	
A dust mask or full-face respirator must be used during installation of Polar Barrier. A dust mask is recommended while handling Polar Barrier.	
Other Precautions	
Polar Barrier shall not be stored above 180 °F or stored in contact with any surface above 180°F.	

**Section VIII - Control Measures**

Respiratory Protection ( <i>Specify Type</i> ) OSHA approved equipment for nuisance dust that may be encountered during handling and installation.		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical ( <i>General</i> ) N/A	Other N/A
Protective Gloves Needed when skin is cut or damaged	Eye Protection Required in the case of eye irritation.	
Other Protective Clothing or Equipment None		
Work/Hygienic Practices Normal cleanliness		
<b><u>Additional Information</u></b>		
<b>Disposal: Quantities of Polar Barrier cellulose insulation in excess of 50 pounds</b>		

**should be recycled. Small quantities of Polar Barrier can be sent to municipal landfills after checking state and local regulations.**

**Transport: Polar Barrier cellulose insulation is not listed as a hazardous material by the U.S.D.O.T. Polar Barrier is not regulated for international rail, highway, or air transport.**

**Polar Barrier NFPA Classification: Health – 0 Flammability – 0 Reactivity- 0**  
**Hazardous Materials Information System: Flammability - 0**  
**Reactivity - 0**  
**Acute Health - 1**

\* U.S.G.P.O.: 1986 - 491 - 529/45775