

**Manufacturer's Name, Address, & Phone Number:** Applegate Insulation Manufacturing, Inc.  
1000 Highview Drive  
Webberville, Michigan 48892  
(517) 521-3545  
fax (517) 521-3597

**Product Name:** Applegate Cellulose Insulation

**Product Composition:** Manufactured out of secondary fiber paper stock, boric acid, and ammonium sulfate. Does not contain any hazardous fiberglass, rockwool, or formaldehyde.

### Hazard Identification

**Overview:** Applegate Cellulose Insulation is gray, odorless and made from recycled newspapers and fire retardants. Applegate Insulation presents no unusual hazard if involved in a fire. It presents little hazard to humans. Care should be taken to minimize the amount of Applegate Insulation released to the environment to avoid ecological effects.

There may be some confusion about the health risks of insulation because fiberglass has been linked to

cancer. It is important to note that Applegate Insulation is made from natural cellulose fibers and has not been linked to cancer. Unlike fiberglass, Applegate cellulose has not been determined to be "reasonably anticipated to be a carcinogen" by the National Toxicology Program.

Also, Applegate cellulose is not required by OSHA to carry a cancer warning label that is mandated for fiberglass.

### Health Information

**Ingestion:** Not intended for ingestion.

**Inhalation:** Although dust inhalation is the primary route of exposure, nose or throat irritation is rare and usually mild. Excessive exposure to dust may cause irritation.

**Skin Contact:** Does not normally itch or irritate skin. If skin is wet, contact may cause irritation.

**Eye Contact:** Dust may cause eye irritation upon eye contact.

**Carcinogenicity:** No.

### First Aid Information

**Ingestion:** Rinse mouth and drink large amounts of water.

**Inhalation:** No specific treatment is necessary since Applegate Insulation is not likely to be hazardous. Avoid exposure to dust levels in excess of regulatory limits.

**Skin Contact:** Wash off skin with water to prevent irritation.

**Eye Contact:** Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

### Physical Information

**Appearance:** Gray, milled paper. Slight damp odor, if any.

**Vapor Pressure:** Negligible @ 20°C.

**Solubility in Water:** Cellulose fibers are not soluble. Fire retardant additives are soluble at a rate of 4.7% @ 20°C.

**Boiling Point:** Not Applicable

**Melting Point:** Not Applicable

**Flash Point:** Not Applicable

**Viscosity:** Not Applicable

### Exposure Controls/Personal Protection

**Engineering Controls:** Use local exhaust ventilation to keep airborne concentrations of dust below permissible concentrations.

**Personal Protection:** Where airborne concentrations are expected to exceed exposure limits, NIOSH certified respirators must be used. Eye goggles and gloves are not required for normal industrial expo-

sure, but may be recommended if the environment is excessively dusty.

**Permissible Concentrations:** Particulates not otherwise regulated; 15 mg/m<sup>3</sup>. OSHA PEL total dust; 15 mg/m<sup>3</sup>, respirable dust; 5 mg/m<sup>3</sup>, ACGIH TLV total dust; 10 mg/m<sup>3</sup>.

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### Handling Information

**In Case of Spill:** Shovel or sweep up and place in container for disposal.

### Respiratory & Eye Information

**Where dusty conditions exist:** Use a NIOSH approved goggles. Follow good personal hygiene and housekeeping practices.  
dustmask or respirator. If dust is annoying, use dust

### Waste Disposal Information

Dispose of in accordance with all applicable federal, state, and local environmental regulations.

### Fire & Explosion Information

**Extinguishing Media:** Water or any standard agent may apparatus should be used by firefighters.  
be used.

**Special Fire Fighting Procedures:** Use standard procedures as dictated by the given situation. Material contains fire retardants and has a critical radiant flux greater than or equal to 0.12 w/cm<sup>2</sup> and a smoldering combustion less than or equal to 15.0% per ASTM C-739. Full protective clothing and self-contained breathing  
**Unusual Explosion Hazards:** None.  
**Unusual Fire Hazards:** None. However, material should not be applied where temperatures may exceed 180°F. (i.e. Make sure ductwork is sealed and maintain clearance around recessed lights, exhaust flues of furnaces and other heat producing devices, per National Electrical Code.)

### Additional Information

This MSDS applies only to the identified product as of the effective date of this MSDS and the contents may not be valid or useful if the product is altered or combined with other products, or used in an unsafe manner or for other than its intended purpose.

The Manufacturer has endeavored to disclose accurate and current information, as of the effective date of this MSDS. **However**, the Manufacturer **disclaims** any warranties, express or implied, representations or guarantees of any kind, regarding accuracy of this information or the properties, fitness, or safety of the product identified herein. The user shall have the sole responsibility for the proper use of the information and for the establishment of proper conditions for, and the safe

use of, the product identified herein.

**Disclaimer:** This MSDS is offered for your information and consideration only, and is not intended for any other person or purpose. It is your responsibility to conduct such investigations as you deem appropriate under the circumstances. To the best knowledge of the Manufacturer, there are no known serious health hazards related to its normal and intended use, except as may be disclosed, this product (as a whole) has **not** been tested by the Manufacturer for all potential health hazards or effects. There may be health hazards related to its components.

**Whoever listens to the Lord shall live safely, and shall be at peace from the fear of evil. Proverbs 1:33**