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(incl)

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MATERIAL SAFETY DATA SHEET

REVISION DATE:08/15/95

Section 1. IDENTIFICATION (Bark Flour, Wood Flour) TRADE NAME: Modal, Superbond, T-Series, A-Series, M-Series, and B-Series products. **Description:** Particles generated by mechanical cutting or abrasion process performed on wood or bark. **Manufacturers Name:** Ace International Inc., P.O. Box 885, Centralia, WA 98531 Telephone: (360) 736-9999. **8/16/98**

Section 2. HAZARDOUS INGREDIENTS WOOD or BARK Dust/ Wood Particles: SEQ-34-4

Applicable Exposure Limits	Applicable Exposure Limits	Applicable Exposure Limits
W.I.S.H.A. PEL-W.I.S.H.A. Non-allergenic wood dust 5mg/m ³	O.S.H.A. PEL-O.S.H.S.A. Hardwood 5mg/m ³ Softwood 5mg/m ³ STEL 10mg/m ³	ACGIH TLV-Biological Exposure Index Hardwood 1mg/m ³ Softwood 5mg/m ³ STEL 10mg/m ³

Section 3. PHYSICAL PROPERTIES
BOILING POINT: None; **SPECIFIC GRAVITY:** (water = 1): <1; **VAPOR PRESSURE:** None; **PERCENT VOLATILE:** None; **MELTING POINT:** None; **SOLUBILITY IN WATER:** Insoluble; **EVAPORATION RATE:** None; **PH:** None; **APPEARANCE AND ODOR:** Color and odor are variable dependent upon species and time between harvesting and processing.

Section 4. FIRE AND EXPLOSION DATA
FLASH POINT: None; **AUTO-IGNITION TEMPERATURE:** Variable (typically 400-500 Degrees F); **EXPLOSIVE LIMITS IN AIR:** 40 grams/m³ (LEL); **EXTINGUISHING MEDIA:** Water, Carbon Dioxide, Halon, Dry Chemical, Sand, Foam. **SPECIAL FIRE FIGHTING PROCEDURES:** Use water mist to wet down wood or bark dust to reduce the likelihood of ignition or dispersion of dust into air. Remove burned or wet dust to open area after fire is extinguished. **UNUSUAL FIRE AND EXPLOSION HAZARD:** Wood or bark dust may present a strong to serve explosion hazard if dust cloud contacts an ignition source.

Section 5. HEALTH HAZARD INFORMATION
SIGNS AND SYMPTOMS OF EXPOSURE: Exposure to wood or bark dust can produce allergic reaction in sensitive individuals. Allergic responses include dermatitis as a result of skin contact and respiratory irritation, nasal dryness, coughing, wheezing, sneezing, or breathing difficulties as a result of inhalation. **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Respiratory condition and allergies. Sinusitis and prolonged colds have also been reported. **CHRONIC EFFECTS:** Wood or bark dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. Prolonged exposure to wood or bark dust has been reported by some observers to be associated with nasal cancer. Bark dust is not listed as a carcinogen by IARC, ACGIH, NPT, or OSHA. **EMERGENCY FIRST AID PROCEDURES:** **EYES:** Flush with water to remove dust particles. If irritation persists get medical attention. **SKIN:** Seek medical attention if a rash, dermatitis or other skin disorders occur. **INGESTION:** None; **INHALATION:** Remove to fresh air. If irritation or other symptoms persist, consult a physician. **The International Agency For Research On Cancer (IARC) has classified wood dust as a nasal carcinogen.**

Section 6. REACTIVITY DATA
Stability: Stable under normal conditions. **INCOMPATIBILITY:** Avoid strong oxidizing agents and drying oils. **HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal-oxidative degradation of wood or bark produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids. **HAZARDOUS POLYMERIZATION:** Will not occur. **INGESTION:** None; **CONDITIONS TO AVOID:** Wood or bark dust is extremely combustible. Keep away from ignition sources.

Section 7. SPILL-LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or vacuum up spills for recovery disposal. Avoid creating dust conditions. Do not use compressed air. Provide for good ventilation. Place recovered wood or bark dust in a container for proper disposal. **WASTE DISPOSAL METHOD:** Dispose in a landfill or incinerator in accordance with local, state, and federal regulations.

Section 8. SPECIAL PROTECTION INFORMATION
PERSONAL PROTECTIVE EQUIPMENT: Wear goggles or safety glasses and other protective equipment such as gloves and NIOSH approve breathing protection for exposure to wood or bark dust. Respirators are required if air contaminations exceed ACGIH TVL. **VENTILATION:** Provide adequate general and exhaust ventilation to maintain healthful working conditions. Due to explosive potential of wood or bark dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment.

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