
1. PRODUCT IDENTIFICATION AND USE

PRODUCT NAME/ID: Dragonfly Bamboo Flooring

MANUFACTURER/SUPPLIER:
Dragonfly Bamboo
P.O. Box 71186
Shorewood, WI USA 53211

PRODUCT USE: Prefinished solid bamboo flooring

WHMIS CLASSIFICATION: Not a controlled product under WHMIS requirements

2. HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% By Wt	CAS No.	LD₅₀	LC₅₀	Applicable Exposure Limits
Bamboo ¹	94 - 95	None	NA	NA	Total Dust - OSHA PEL-TWA 15 mg/m ³ Respirable Dust - OSHA PEL-TWA 5 mg/m ³ Inhalable Dust - ACGIH TLV-TWA 10 mg/m ³ Respirable Dust - ACGIH TLV-STEL 3 mg/m ³
Urea formaldehyde Resin solids	4 - 5	9011-05-6	NA	NA	Formaldehyde – OSHA PEL-TWA 0.75 ppm Formaldehyde - OSHA PEL-STEL 2 ppm Formaldehyde – ACGIH TLV-CV 0.3 ppm
Urethane Coating	<1	None	NA	NA	Not established

Note: 1. Bamboo is a woody grass, distinct from the softwoods, hardwoods and western red cedars addressed by the Wood Dust exposure limits of OSHA and ACGIH.

3. PHYSICAL DATA

PHYSICAL STATE: Solid

ODOUR AND APPEARANCE: Light yellow, blonde or caramel, slight aromatic odour.

VAPOUR PRESSURE: not applicable

ODOUR THRESHOLD: NA

VAPOUR DENSITY: not applicable

EVAPORATION RATE: not applicable

pH: not applicable

SPECIFIC GRAVITY: ~ 0.6

BOILING POINT: not applicable

SOLUBILITY IN WATER: <0.1%

MELTING POINT: not applicable

Note: NA = Not Available

4. FIRE AND EXPLOSION DATA

FLAMABILITY: Yes. Bulk solid material is flammable and high levels of airborne bamboo dust can be explosive.

CONDITIONS TO AVOID: Heat, open flame, sources of ignition.

EXTINGUISHING MEDIA: Water, Dry Chemical, Carbon Dioxide, Sand

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: 200 - 260°C

FLAMMABILITY LIMITS: ~ 40 g/m³ for airborne bamboo dust

HAZARDOUS COMBUSTION PRODUCTS: Burning of product can produce carbon monoxide and/or carbon dioxide, nitrogen dioxide, particulate, aldehydes, resin acids, terpenes and polycyclic aromatic hydrocarbons.

5. REACTIVITY DATA

CHEMICAL STABILITY: Stable under ordinary conditions of use and storage.

SUBSTANCES TO AVOID: Strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Not determined

6. TOXICOLOGICAL PROPERTIES

TOXICITY SUMMARY: Specific toxicity tests have not been conducted on this product. This hazard evaluation is based on information from similar products, the ingredients, technical literature and / or professional experience. Normal use of this product would not involve exposure to the hazardous ingredients in forms that would cause toxic exposure. The primary health hazards posed by this product are potentially due to exposure of dust generated when sanding, sawing, routing, drilling and planing. Once installed, potential hazards during normal use are not likely. The following toxic properties related to accidental over exposure to bamboo dust, and not normal use.

ACUTE TOXICITY:

EYE CONTACT: Bamboo dust can cause mechanical irritation resulting in redness and watering.

SKIN CONTACT: Not likely to occur under normal use. Bamboo dust may evoke allergic contact dermatitis in sensitized individuals.

INHALATION: Not likely to occur during normal use. Emission tests of the product determined very low release of formaldehyde well below indoor air quality criteria (0.05 ppm). Exposure to bamboo dust may cause nasal dryness, irritation and obstruction. Coughing and sneezing, sinusitis and prolonged colds have been report.

INGESTION: Not likely to occur under normal use. If bamboo dust is ingested, may cause gastrointestinal tract irritation.

CHRONIC TOXICITY: Bamboo dust is **not** a reported carcinogen by IARC, NTP or OSHA. Prolonged exposure to bamboo dust may cause respiratory irritation and/or sensitization.

7. PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

SKIN PROTECTION: Not required. Wash hands after use.

RESPIRATORS: Under normal use respiratory protection is not required. A dust respirator is recommended if handling, cutting, sanding etc. or installation generates airborne bamboo dust.

EYE PROTECTION: Eye protection is not required under normal use. Goggles or safety glasses are recommended if handling, cutting, sanding etc. or installation generates airborne bamboo dust.

OTHER PROTECTION: Not required.

ENGINEERING CONTROLS: Not normally required. If high airborne bamboo dust concentrations are experienced during cutting or sanding etc., use local exhaust ventilation.

WASTE DISPOSAL: Household waste disposal.

HANDLING: Do not use near flame or hot surfaces. Do not expose to heat

SPILL OR LEAK PROCEDURE: Remove settled bamboo dust to avoid excessive accumulation of this combustible material. Minimize blowdown or other practices that generate high airborne dust concentrations.

STORAGE: Store in cool (less than 25°C) and dry area away from open flame and/or source of ignition.

8. FIRST AID MEASURES

EYE: In the event of eye contact with bamboo dust, the eyes should be copiously flushed with water for 15 minutes and medical aid sought immediately.

SKIN: Wash affected areas with soap and water. Seek medical attention if irritation or dermatitis develops.

INGESTION: Not applicable under normal use.

INHALATION: In the event of accidental direct inhalation of bamboo dust, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention immediately.

9. MSDS PREPARATION DATE

PREPARED BY: ORTECH Environmental
for Dragonfly Bamboo (414) 828-6340

DATE: October 9, 2007

DISCLAIMER: The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. The user has the sole responsibility to determine the suitability of the product for any use and the manner of use contemplated. The user must meet all applicable safety and health standards.