

MATERIAL SAFETY DATA SHEET

Page 1

**PRODUCTS:** BALTEK® Rigid (RIGID) End-Grain Balsa Core Panels including Slope Tank Bottoms, Rigid Fillet Strips (FS), Flat Grain Balsa (TV Panels, Model Grade, Resin Bonded Balsa Blocks; Prosthetic Balsa Blocks; Balsa Lumber, SBA (SB.50, SB.100, SB.150, SL.45, SL.56, SL.67, SL.78, SL.89, SL.910, SL.1011, SL.1112, AL.1213, SL.1314, SL.1415, SL.1516, and WP, with either LamPrep (LP) or AL-600/10 (AL) surface finish)

THIS MATERIAL SAFETY DATA SHEET COMPLIES WITH  
29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: BALSAL WOOD SHEETS, PANELS AND BLOCKS  
 GENERAL OR GENERIC I.D.: Balsa Wood (Hardwood)  
 D.O.T. HAZARD CLASSIFICATION: ORM-C/No Label Required  
 NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) AND HMIS/NAPIM (NATIONAL ASSOCIATION OF PRINTING INK MFGRS.) CLASS:  
 HEALTH (NFPA/HMIS): 0  
 FLAMMABILITY(NFPA/HMIS): 1  
 REACTIVITY (NFPA/HMIS): 0  
 PERSONAL PROTECTION (HMIS): None Required  
 (Where 4 = Extreme; 3 = Severe; 2 = Moderate; 1 = Slight; 0 = None)

SECTION II - HAZARDOUS COMPONENTS

Ingredient	C.A.S. No.	% (By Weight)	PEL	TLV
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PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS PER 29 CFR 1910.1200

However, cutting, milling, drilling, routing, sanding or otherwise abrading this material may render airborne components of the product which are subject to one or more of the following exposure limits:

Particles- Not Otherwise Regulated	N/A	TWA=15 mg/m <sup>3</sup>	N/A
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NOTE: ONLY THOSE INGREDIENTS THAT HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200 ARE LISTED IN THIS SECTION. AN INGREDIENT MARKED WITH AN ASTERISK (\*) IS ALSO LISTED IN 29 CFR 1910.1200 (D) #4 AS A KNOWN OR SUSPECTED CARCINOGEN. TO OUR KNOWLEDGE, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO SECTION 313 OF 40 CFR 372.

COMMENT: see SECTION V "HEALTH DATA" for specific exposure limits to the above hazardous component(s)

SECTION III - PHYSICAL DATA

REFINEMENT	MEASUREMENT	PROPERTY
BOILING POINT	For Component (100%)	N/A
VAPOR PRESSURE	For Component (100%)	Less than 1mm HG @ 68 Deg F (20 Deg C)
VAPOR DENSITY	Air = 1	Solid, N/A

Page 2

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SECTION III - PHYSICAL DATA, CONTINUED

Item Numbers: 33301-1012, 33301-1014, 33301-1016, 33301-1018, 33301-1038, 33301-1316, 33301-1332, 33301-1401, 33301-1403, 33301-1404, 33301-1601, 33301-1603, 33301-1604, 33301-1606, 33301-1801, 33301-1804, 33301-1806, 33301-2012, 33301-2014, 33301-2038, 33301-2316, 33301-3014, 33301-3038, 33301-3101, 33301-3104, 33301-3106, 33301-3204, 33301-3206, 33301-4012, 33301-4038, 33301-8012, 33301-8014, 33301-8016, 33301-8018, 33301-8032, 33301-8042, 33301-8082, 33301-8084, 33301-8104, 33301-8106, 33301-8108, 33301-8114, 33301-8115, 33301-8116, 33301-8118, 33301-8121, 33301-8125, 33301-8132, 33301-8143, 33301-8201, 33301-8202, 33301-8203, 33301-8204, 33301-8211, 33301-8212, 33301-8213, 33301-8214, 33301-8215, 33301-8216, 33301-8251, 33301-8255, 33301-8301, 33301-8316, 33301-8341, 33301-8361, 33301-8365, 33301-8371, 33301-8375, 33301-8383, 33301-8391, 33301-9000, 33301-9001, 33301-1013, 33301-1036, 33301-1326, 33301-1336, 33301-2018, 33301-2036, 33301-2336, 33301-3016, 33301-8036

REFINEMENT	MEASUREMENT	PROPERTY
SPECIFIC GRAVITY		0.05 - 0.250 @ 77 Deg F (25 Deg C)
PERCENT VOLATILE BY VOLUME (%)		Less Than 1%
EVAPORATION RATE (ETHER = 1)		Nil
SOLUBILITY IN WATER BY WEIGHT (%)		Less Than 1%
APPEARANCE, STATE, FORM		Wood, Integral, Solid

SECTION IV - FIRE & EXPLOSION DATA

FLASH-POINT (ASTM D1929): Greater Than 400 Deg F (200 Deg C)  
 AUTOIGNITION: Greater Than 450 Deg F (232 Deg C)  
 FLAMMABILITY LIMITS IN AIR: LOWER: Not Determined  
 UPPER: Not Determined  
 EXPLOSIVE LIMITS IN AIR: For wood dust clouds: 40 grams/m<sup>3</sup> (LEL)  
 HAZARDOUS DECOMPOSITION PRODUCTS: None Known To Baltek

EXTINGUISHING MEDIA:  WATER  WATER FOG  CO<sub>2</sub>  DRY CHEMICAL  OTHER:

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and protective clothing should be worn in a sustained fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Once ignited, product may punk until doused with water. As a result of machining, wood dust where generated is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source (see EXPLOSIVE LIMITS IN AIR, above).

SECTION V - HEALTH DATA

EXPOSURE LIMITS: machining or otherwise abrading may render components of the product airborne which are subject to one or more of the following exposure limits:

<sup>1</sup> See important footnote concerning OSHA PEL's for wood dust  
 Wood Dust

OSHA PEL: TWA=15.0 mg/m<sup>3</sup> (total dust);  
 TWA=5.0 mg/m<sup>3</sup> (respirable fraction)  
 ACGIH TLV: TWA=1.0 mg/m<sup>3</sup>

Wood Dust (certain Hardwoods, such as beech and oak)  
 (See Section VIII for proper protective wear, Section II for Hazardous Components.)

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SECTION V - HEALTH DATA, CONT'D

EFFECTS OF OVEREXPOSURE: For incidental wood dust

Eyes Can cause mild irritation, redness, tearing, blurry vision and transient mechanical irritation.  
 Various species of wood dust can elicit an allergic contact dermatitis in sensitized individuals.

Skin Single, prolonged exposure (hours) or repeated, prolonged exposure may cause itching

<sup>1</sup> In AFL-CIO v. OSHA 965 F. 2d 962 (11th Cir. 1992), the court overturned OSHA's 1989 Air Contaminant Rule, including the specific PEL's for wood dust that OSHA had established at that time. The 1989 PEL's were: TWA - 5.0 mg/m<sup>3</sup> (all soft and hard woods, except Western Red Cedar: TWA - 2.5 mg/m<sup>3</sup>).

Wood dust is now officially regulated as an organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under the Health Effects Information section of this MSDS. However, a number of states have incorporated provisions of the 1989 standard in their state plans. Additionally, OSHA has announced that it may cite companies under the OSH Act General Duty Clause under appropriate circumstances with the 1989 PELs.

**Breathing** Excessive inhalation of dust from product can cause asphyxiation due to coating of lung tissues. May cause nasal dryness, irritation and obstruction. Coughing, wheezing and sneezing; sinusitis and prolonged colds have also been reported.

**Swallowing** Not likely to occur.

**FIRST AID:**

**If on skin** Thoroughly wash area with soap and water when convenient to do so. Do not rub or scratch irritated area.

**If (dust) in eyes** Flush with large amounts of water, lifting upper and lower lids occasionally. Seek medical attention if irritation persists.

**If swallowed** If large quantities have been ingested, seek prompt medical attention.

**If (dust) breathed** If asphyxia is apparent, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

**PRIMARY ROUTES OF ENTRY:**

INHALATION (of incidental dust)

**EFFECTS OF CHRONIC EXPOSURE:**

Wood dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. The International Agency for Research on Cancer (IARC) classifies wood dust as a carcinogen to humans (Group 1, as of April 1995). This classification is based primarily on IARC's evaluation of the nasal cavities and paranasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hemapoietic systems, stomach, colon or rectum with exposure to wood dust. The American Conference of Governmental Industrial Hygienists (ACGIH) classifies hardwood dust as a confirmed human carcinogen (Class A1, as of May 1996).

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SECTION VI - REACTIVITY DATA  
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**HAZARDOUS POLYMERIZATION:** Will not occur.  
**STABILITY:** Stable.  
**INCOMPATIBILITY (AVOID CONTACT WITH):** Strong oxidizers can cause ignition and subsequent burning.  
**CONDITIONS TO AVOID:** Exposure to open flame or excessive heat. Sustained burning may produce low levels of carbon monoxide, carbon dioxide, and other toxic materials.

Page 4

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 SECTION VI - REACTIVITY DATA, CONT'D  
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**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, traces of low molecular weight hydrocarbons and organic acids.

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 SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES  
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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

**SMALL SPILL:** Broom or vacuum up.  
**LARGE SPILL:** Broom or vacuum up.

**WASTE DISPOSAL METHOD:**

Baltek suggests that all local, state and federal regulations concerning health and pollution be reviewed to determine approved disposal procedures. Contact Baltek Corporation if there are any disposal questions.

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 SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES, CONT'D  
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**D.O.T. (49 CFR 171.8)/E.P.A. (40 CFR 117) SPILL REPORTING INFORMATION:**

**HAZARDOUS SUBSTANCE:** None  
**REPORTABLE QUANTITY:** Does not apply.  
**CONCENTRATIONS OF HAZARDOUS SUBSTANCE:** None  
**REPORTABLE QUANTITY OF PRODUCT:** Does not apply.

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 SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
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**RESPIRATORY PROTECTION:** Where use results in generation of dust from product, use of a dust/mist respirator with a NIOSH/MSMA approval of TC-21C-132 is recommended.

**VENTILATION:** Where use results in generation of dust from product, provide sufficient mechanical (general and/or local exhaust) ventilation or vacuum-assisted dust collection to prevent explosive concentrations of airborne dust from developing.

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 SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED, CONTINUED  
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**PROTECTIVE GLOVES:** Only necessary for individuals with sensitization.

**EYE PROTECTION:** Goggles are recommended during fabrication or in those cases where use results in generation of dust.

**OTHER PROTECTIVE EQUIPMENT:** Normal work clothing covering arms and legs.

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**SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS**  
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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Product is combustible. Use reasonable care and caution.

**CAUTION LABEL:**

The U.S. Department of Labor Occupational Safety and Health Administration (OSHA) has determined that there is a sufficient workplace safety issue raised by the presence of certain amounts and types of wood dust and has established new rules addressing this issue. (Hazard Communication Standard - 29 CFR Parts 1910, 1915, 1917, 1918, 1926 and 1928). In accordance with these rules, and effective as of the date of this document issue, we must provide customers of all wood products which could produce wood dust during shipping or processing a Material Safety Data Sheet (herein) and a label (attached).

PREPARED BY: Kurt Feichtinger

LAST REVISION DATE: January 1, 2009

PREVIOUS REVISION DATE: January 1, 2008

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## WOOD DUST CAUTION!



SAWING, SANDING OR MACHINING WOOD PRODUCTS CAN PRODUCE WOOD DUST WHICH CAN CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.

WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND/OR ALLERGIC EFFECTS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED WOOD DUST AS A NASAL CARCINOGEN IN HUMANS.

- Avoid dust contact with ignition source.
- Sweep or vacuum dust for recovery or disposal.
- Avoid prolonged or repeated breathing of wood dust in air.
- Avoid dust contact with eyes and skin.

- FIRST AID:                   If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.

For additional information, see the Material Safety Data Sheet.

September 17, 2004