

MATERIAL SAFETY DATA SHEET

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**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

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SECTION III - PHYSICAL DATA, CONTINUED

## PROPERTY

## REFINEMENT

## MEASUREMENT

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 &amp; 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)

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

ACGIH TLV: TWA=1.0 mg/m<sup>3</sup>

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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.

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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

**Test Report**

No.HKHL1209024937JL

Date:OCT 08, 2012

Page 1 of 1

FORTUNE CENTURY INT'L CO  
H1001, 10/F UNIVERSAL INDUSTRIAL CENTRE, 19-25 SHAN MEI ST., SHATIN, HONG KONG

**Material Safety Data Sheet Cover Page**

SGS Case No. : HKHL120900015787  
 Sample Name : BALSA / BASSWOOD TACKY GLUE  
 End Uses : ADHESIVE  
 Sample Receiving Date : SEP 07, 2012  
 Last Information Date : OCT 03, 2012  
 SDS Preparation Period : OCT 03, 2012 – OCT 05, 2012

Service Requested : Material Safety Data Sheet (MSDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the MSDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200 (g). For details, please refer to the attached Material Safety Data Sheet (MSDS).

\*\*\* End of Report \*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.

Che Wai Leuk, Jerry  
Section Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



# Material Safety Data Sheet

MSDS for #60458 - BOOMILEVER WOOD KIT<sup>29</sup> CFR 1910.1200

Printing date 10/04/2012

Reviewed on 10/04/2012

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Balsa/ Basswood Tacky Glue
- **Article number:** *Not available*
- **Application of the substance / the preparation** *Adhesive*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Fortune Century Int'l Co.  
 H1001, 10/F Universal Industrial Centre,  
 19-25 Shan Mei St., Shatin, Hong Kong  
 Tel: (852) 26901208*
- **Further information obtainable from:** *Fortune Century Int'l Co.*
- **Emergency telephone number:**  
*Philip Fung  
 Tel: (852) 51881523*
- **Email:** *info@fortunecentury.com.hk*
- **Reference Number:** *HKHL1209024937JL*

## 2 Hazards identification

- **Hazard description:**  
*Highly flammable.  
 May cause sensitisation by inhalation and skin contact.*
- **Information concerning particular hazards for human and environment:**  
*The product has been classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).*
- **Classification system:**  
*The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.*
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = *0
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

## 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Dangerous components:**

108-05-4	vinyl acetate	40.0%
7727-54-0	diammonium peroxodisulphate	1.0%

- **Non-Dangerous components:**

7732-18-5	water, distilled, conductivity or of similar purity	46.0%
9002-89-5	Polyvinyl alcohol; polyvinol	10.0%
71342-87-5	Hexanedioic acid, polymer with 1,2-propanediol, esters with C11-17-fatty acids	2.0%
69072-97-5	Promulgen D	1.0%

(Contd. on page 2)

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**Material Safety Data Sheet**MSDS for #60458 - BOOMILEVER WOOD KIT<sup>29</sup> CFR 1910.1200

Printing date 10/04/2012

Reviewed on 10/04/2012

**Trade name: Balsa/ Basswood Tacky Glue**

(Contd. of page 1)

- **Remark:**  
Classification of Promulgen D(CAS No. 69072-97-5) and Hexanedioic acid, polymer with 1,2-propanediol, esters with C11-17-fatty acids(CAS No. 71342-87-5) are not covered by company database and are declared by client as nonhazardous.

**4 First aid measures**

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

**5 Firefighting measures**

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** Mouth respiratory protective device.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from flammable substances.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.

(Contd. on page 3)

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**Material Safety Data Sheet**MSDS for #60458 - BOOMILEVER WOOD KIT<sup>29</sup> CFR 1910.1200

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**Trade name: Balsa/ Basswood Tacky Glue**

Store in cool, dry conditions in well sealed receptacles.

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**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

**108-05-4 vinyl acetate**

REL (USA)	Short-term value: C 15* mg/m <sup>3</sup> , C 4* ppm *15-min
TLV (USA)	Short-term value: 53 mg/m <sup>3</sup> , 15 ppm Long-term value: 35 mg/m <sup>3</sup> , 10 ppm
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm IARC 2B
EV (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm
LMPE (Mexico)	Short-term value: 60 mg/m <sup>3</sup> , 20 ppm Long-term value: 30 mg/m <sup>3</sup> , 10 ppm A3

**7727-54-0 diammonium peroxodisulphate**

TLV (USA)	0.1 mg/m <sup>3</sup>
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- **Additional information:** The lists that were valid during the creation were used as basis.

- **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Trade name: *Balsa/ Basswood Tacky Glue*· **Eye protection:**

(Contd. of page 3)



Tightly sealed goggles

**9 Physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	White
· <b>Odor:</b>	Light
· <b>Odour threshold:</b>	Not available

· **pH-value:** 5-9· **Change in condition**

· <b>Melting point/Melting range:</b>	Not available
· <b>Freezing point:</b>	Not available
· <b>Boiling point/Boiling range:</b>	100°C

· **Flash point:** Not available· **Flammability (solid, gaseous):** Not available· **Auto-Ignition temperature:** Not available· **Decomposition temperature:** Not available· **Explosion limits:**

· <b>Lower:</b>	Not available
· <b>Upper:</b>	Not available

· **Vapor pressure:** 0.62 mbar· **Density:** Not available· **Relative density:** Not available· **Vapour density:** Not available· **Evaporation rate:** Not available· **Solubility in / Miscibility with**· **Water:** Not available· **Partition coefficient (n-octanol/water):** Not available· **Viscosity:**· **Dynamic:** Not available· **Kinematic:** Not available**10 Stability and reactivity**

- **Reactivity** No decomposition if used according to specifications.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** Reacts with strong oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

USA

(Contd. on page 5)

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MSDS for #60458 - BOOMILEVER WOOD KIT<sup>29</sup> CFR 1910.1200

Printing date 10/04/2012

Reviewed on 10/04/2012

Trade name: Balsa/ Basswood Tacky Glue

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**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****7727-54-0 diammonium peroxodisulphate**

Oral LD50 820 mg/kg (rat)

**9002-89-5 Polyvinyl alcohol; polyvinol**

Dermal LD50 14700 mg/kg (mouse)

&gt;20000 mg/kg (rat)

**108-05-4 vinyl acetate**

Oral LD50 2920 mg/kg (rat)

Dermal LD50 2335 mg/kg (rabbit)

· **Primary irritant effect:**· **on the skin:** Irritating effect possible· **on the eye:** Irritating effect possible· **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

108-05-4 vinyl acetate 2B

9002-89-5 Polyvinyl alcohol; polyvinol 3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**13 Disposal considerations**· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)

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## Material Safety Data Sheet

MSDS for #60458 - BOOMILEVER WOOD KIT<sup>29</sup> CFR 1910.1200

Printing date 10/04/2012



Reviewed on 10/04/2012

Trade name: *Balsa/ Basswood Tacky Glue*

(Contd. of page 5)

- *Uncleaned packagings:*
- *Recommendation:* Disposal must be made according to official regulations.

**14 Transport information**

· <i>UN-Number</i> · <i>DOT, IMDG, IATA</i>	<i>UN1133</i>
· <i>UN proper shipping name</i> · <i>DOT, IMDG, IATA</i>	<i>ADHESIVES</i>
· <i>Transport hazard class(es)</i> · <i>DOT</i>	
	
· <i>Class</i> · <i>Label</i>	<i>3 Flammable liquids.</i> <i>3</i>
· <i>IMDG, IATA</i>	
	
· <i>Class</i> · <i>Label</i>	<i>3 Flammable liquids.</i> <i>3</i>
· <i>Packing group</i> · <i>DOT, IMDG, IATA</i>	<i>II</i>
· <i>Environmental hazards:</i> · <i>Marine pollutant:</i>	<i>No</i>
· <i>Special precautions for user</i> · <i>EMS Number:</i>	<i>Warning: Flammable liquids</i> <i>F-E,S-E</i>
· <i>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	<i>Not applicable.</i>

**15 Regulatory information**

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *Sara*

· *Section 355 (extremely hazardous substances):*

108-05-4 vinyl acetate

· *Section 313 (Specific toxic chemical listings):*

108-05-4 vinyl acetate

· *TSCA (Toxic Substances Control Act):*

108-05-4 vinyl acetate

9002-89-5 Polyvinyl alcohol; polyvinol

71342-87-5 Hexanedioic acid, polymer with 1,2-propanediol, esters with C11-17-fatty acids

7727-54-0 diammonium peroxodisulphate

7732-18-5 water, distilled, conductivity or of similar purity

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USA

**Material Safety Data Sheet**

MSDS for #60458 - BOOMILEVER WOOD KIT<sup>29</sup> CFR 1910.1200

Printing date 10/04/2012

Reviewed on 10/04/2012

**Trade name: Balsa/ Basswood Tacky Glue**

(Contd. of page 6)

**· Proposition 65**

**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogenity categories**

**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

108-05-4 vinyl acetate

A3

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**· Hazard symbols:**

Harmful  
Highly flammable

**· Hazard-determining components of labelling:**

diammonium peroxodisulphate

**· Risk phrases:**

Highly flammable.  
May cause sensitisation by inhalation and skin contact.

**· Safety phrases:**

Keep out of the reach of children.  
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
Avoid contact with skin.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Wear suitable gloves.  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**· National regulations:**

**· Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**16 Other information**

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(Contd. on page 8)

USA

**Material Safety Data Sheet**

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(Contd. of page 7)

*The contents and format of this MSDS/SDS are in accordance with 29 CFR 1910.1200(g).*

**DISCLAIMER OF LIABILITY**

*The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.*

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*End of Document*

USA



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## Material Safety Data Sheet

### Wood Dust

#### SECTION 1 - PRODUCT IDENTIFICATION

<b>Product Name</b>	Wood Dust
<b>Synonyms</b>	Sawdust, sander dust
<b>Description</b>	Wood dust includes dust from all hard and soft woods. Consists of particles generated by any manual or mechanical cutting or abrasion process performed on wood. Also includes wood dust from formaldehyde bonded wood products.

#### SECTION 2 - HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

CAS #	Component	Percent
N/A	Wood/Wood dust	92-100%
50-00-0	Formaldehyde	0-8%

#### SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light to dark color granular solid
<b>Odor</b>	Wood odor - dependent on species
<b>Boiling Point</b>	Not Applicable
<b>Melting Point</b>	Not Applicable
<b>Freezing Point</b>	Not Applicable
<b>Weight per Gallon</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable

<b>Specific Gravity</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Vapor Density</b>	Not Applicable
<b>Density</b>	Not Applicable
<b>% Volatile by Volume</b>	Not Applicable
<b>Solubility (H2O)</b>	Not Applicable
<b>Reactivity (H2O)</b>	Not Applicable

#### SECTION 4 - FIRE AND EXPLOSION HAZARD

Flash Point	Method	Upper/Lower Flammable Limit	Auto Ignition	Rate of Burn
Not Applicable	Not Applicable	Lower: 40.0 g/m3	400-500 deg. F	Not Available

**Unusual Fire and Explosion Hazards:** Wood is combustible when exposed to heat or flame. Wood dusts may form explosive mixtures with air in the presence of an ignition source.

**Fire Fighting Equipment and Extinguishing Media:** Use water to wet down wood to reduce the likelihood of ignition. Remove burned or wet dust to open area after fire is extinguished. Fire fighters should use full protective clothing including self-contained breathing apparatus.

#### SECTION 5 - HEALTH HAZARDS AND FIRST AID

	Signs and symptoms of acute overexposure	First Aid Measures
<b>Eyes</b>	Wood dust may cause irritation to the eyes. Symptoms can include irritation, redness, scratching of the cornea and tearing.	Immediately flush eyes with water for at least 15 minutes. Seek medical attention if symptoms persist.
<b>Skin</b>	Wood dust may cause irritation to the skin. Mechanical rubbing may increase skin irritation. Some wood species and their dusts may contain natural toxins, which may cause dermatitis or allergic reactions in sensitized individuals	For skin contact flush immediately with soap and water, continue at least 15 minutes. If irritation persists, get medical attention immediately. If wood splinters are injected under the skin, get medical attention immediately.
<b>Ingestion</b>	Ingestion of wood dusts is unlikely. If ingestion does occur, slight gastrointestinal irritation may result. Certain species of wood and their dusts may contain natural toxins, which can have adverse effects on humans.	In the material is swallowed, get medical attention or advice. Do not induce vomiting.
<b>Inhalation</b>	Wood dust is irritating to the nose, throat and lungs. Symptoms may include nasal dryness, deposits or obstructions in the nasal passages, coughing, sneezing, dryness and soreness of the throat and sinuses, hoarseness and wheezing. Some species may cause allergic reactions with asthma-like symptoms in sensitized individuals.	If dusts are inhaled, remove person to fresh air. If symptoms persist, seek medical attention.



**Note to Physician:** Respiratory ailments and pre-existing skin conditions may be aggravated by exposure to wood dust

**Medical Conditions Generally Aggravated by Exposure to Wood Dust:** Preexisting eye, respiratory system and skin conditions.

**Chronic Overexposure:** Wood dusts may be irritating to the eyes, skin and respiratory tract. Prolonged inhalation of wood dust may cause respiratory irritation, recurrent bronchitis and prolonged colds. Depending on the species of wood, recurrent exposure may cause allergic skin and respiratory reactions in some individuals.

**Carcinogenicity:** Prolonged exposure to wood dust by inhalation has been reported to be associated with nasal and paranasal cancer. Wood dust is classified as a carcinogen by ACGIH, NIOSH and IARC. This classification is based on an increased incidence of nasal and paranasal cancer in people exposed to wood dusts. Carcinogenicity of wood dust: ACGIH - A1 Confirmed Human Carcinogen (related to wood dusts-hard wood); NIOSH - Occupation carcinogen (related to wood dust); IARC - Monograph 62, 1995 (related to wood dust) (Group1 (carcinogenic to humans)). IARC has listed formaldehyde as a probable human carcinogen.

## SECTION 6 - EXPOSURE CONTROL MEASURES/PERSONAL PROTECTION

### Personal Protective Equipment

<b>Eyes/Face</b>	Wear safety glasses with side shields when handling, cutting, sanding or grinding this material. Use a face shield for processes that may generate excessive dusts and splinters.
<b>Skin</b>	Wear puncture resistant work gloves, such as leather when handling.
<b>Respiratory</b>	Respirators must be worn if the ambient concentration of airborne contaminants exceeds prescribed exposure limits. Dust masks may be worn to avoid inhalation of nuisance dust. Dust masks are not adequate protection in environments above the occupational exposure limit.
<b>Ventilation</b>	Cutting, grinding or sanding should be done outdoors or in a well ventilated area.

### Component Exposure Limits

Components		OSHA		AGGIH	
		PEL	STEL	TLV	TLV STEL
* Wood/ Wood Dust	Softwoods	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction (as a nuisance dust)	N/A	1 mg/m <sup>3</sup> TWA	10mg/m <sup>3</sup> TWA
	Hardwoods	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction (as a nuisance dust)	6mg/m <sup>3</sup> TWA	1mg/m <sup>3</sup> TWA	N/A
	Western Red Cedar	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction (as a nuisance dust)	N/A	0.5 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA
Formaldehyde		0.75 ppm	2ppm	0.3 ppm	N/A

\* A state run OSHA program may have more stringent limits for wood dust and/or Particulates Not Otherwise Regulated.

## SECTION 7 - SAFE HANDLING, STORAGE, DISPOSAL AND ACCIDENTAL RELEASE MEASURES

<b>Handling Procedures</b>	<ul style="list-style-type: none"> <li>Do not generate airborne dusts in the presence of an ignition source when sawing, cutting or grinding wood</li> <li>Practice good personal hygiene procedures</li> <li>Avoid contact of wood dusts with skin and eyes. Avoid breathing wood dusts.</li> <li>Do not eat, drink or smoke when handling this product or in areas where dusts of this product are present.</li> </ul>
<b>Storage Procedures</b>	<ul style="list-style-type: none"> <li>Maintain good housekeeping procedures, such as sweeping regularly to avoid accumulation of dusts</li> <li>Store in a cool, dry area away from excessive heat, sparks and open flame.</li> </ul>
<b>Disposal Procedures</b>	<ul style="list-style-type: none"> <li>Dispose of waste material according to local, State and Federal Regulations</li> </ul>
<b>Accidental Procedures</b>	<ul style="list-style-type: none"> <li>No containment measures are necessary</li> </ul>

## SECTION 8 - REGULATORY INFORMATION

<b>OSHA</b>	Untreated wood and wood products are considered manufactured articles and are exempt under OSHA's Hazard Communication Standard 29 CFR 1910. 1200. Wood dust, a by-product generated from sawing, sanding or machinery wood and wood products, is considered hazardous and is regulated under the Hazard Communications Standard 29 CFR 1910. 1200.
<b>SARA</b>	Not Regulated
<b>DOT</b>	Not Regulated
<b>STATE</b>	California Proposition 65 Warning: This product contains a chemical (wood dust) known to the State of California to cause cancer.

**Notice:** The information and recommendations set forth are believed to be accurate. However, Midwest Hardwood Corporation makes no warranty with respect to and disclaims all liability from reliance on the information.