

**Test Report**

No.HKHL1209024937JL

Date:OCT 08, 2012

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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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Material Safety Data Sheet

MSDS for #60459 - MIDWEST BRIDGE KITS 29 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%

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Trade name: Balsa/ Basswood Tacky Glue

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- **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:** CO₂, 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.

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Printing date 10/04/2012

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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 ³ , C 4* ppm *15-min
TLV (USA)	Short-term value: 53 mg/m ³ , 15 ppm Long-term value: 35 mg/m ³ , 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 ³ , 20 ppm Long-term value: 30 mg/m ³ , 10 ppm A3

7727-54-0 diammonium peroxodisulphate

TLV (USA)	0.1 mg/m ³
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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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Reviewed on 10/04/2012

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

(Contd. of page 3)



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**· **Appearance:**

· Form:	Liquid
· Color:	White
· Odor:	Light
· Odour threshold:	Not available

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

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

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

· Lower:	Not available
· Upper:	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.

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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)

>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.

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Material Safety Data Sheet

MSDS for #60459 - MIDWEST BRIDGE KITS 29 CFR 1910.1200

Printing date 10/04/2012



Reviewed on 10/04/2012

Trade name: Balsa/ Basswood Tacky Glue

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

14 Transport information

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

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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Trade name: Balsa/ Basswood Tacky Glue

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· 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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Material Safety Data Sheet

MSDS for #60459 - MIDWEST BRIDGE KITS 29 CFR 1910.1200

Printing date 10/04/2012

Reviewed on 10/04/2012

Trade name: Balsa/ Basswood Tacky Glue

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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



763-425-8700
www.midwesthardwood.com
9540 83rd Avenue North, Maple Grove, MN 56369

Material Safety Data Sheet

Wood Dust

SECTION 1 - PRODUCT IDENTIFICATION

Product Name	Wood Dust
Synonyms	Sawdust, sander dust
Description	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

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

Specific Gravity	Not Available
Vapor Pressure	Not Available
Vapor Density	Not Applicable
Density	Not Applicable
% Volatile by Volume	Not Applicable
Solubility (H2O)	Not Applicable
Reactivity (H2O)	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
Eyes	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.
Skin	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.
Ingestion	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.
Inhalation	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

Eyes/Face	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.
Skin	Wear puncture resistant work gloves, such as leather when handling.
Respiratory	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.
Ventilation	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 ³ total dust 5 mg/m ³ respirable fraction (as a nuisance dust)	N/A	1 mg/m ³ TWA	10mg/m ³ TWA
	Hardwoods	15 mg/m ³ total dust 5 mg/m ³ respirable fraction (as a nuisance dust)	6mg/m ³ TWA	1mg/m ³ TWA	N/A
	Western Red Cedar	15 mg/m ³ total dust 5 mg/m ³ respirable fraction (as a nuisance dust)	N/A	0.5 mg/m ³ TWA	10 mg/m ³ 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

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

SECTION 8 - REGULATORY INFORMATION

OSHA	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.
SARA	Not Regulated
DOT	Not Regulated
STATE	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.