



**MATERIAL SAFETY DATA SHEET**

June 24, 2005

**I. Product Identification**

Name: Braewood® Phenolic Backed Wood Veneer Laminate  
 Trade Name: Braewood®

**II. Hazardous Ingredients**

Braewood® by itself is not considered a hazardous material. However, under certain conditions of processing and/or storage the following hazardous chemicals or substances may be released:

<u>Common Name</u>	<u>CAS Number</u>	<u>ACGIH Exposure Limit</u>	<u>OSHA Exposure Limit</u>
Formaldehyde	50-00-0	TLV-Ceiling 0.3 ppm	0.75 ppm 8-hour TWA 2 ppm 15-mm STEL
Wood Dust	None	1mg/m <sup>3</sup> 8-hour TWA	5mg/m <sup>3</sup> 8-hour TWA and 10mg/m <sup>3</sup> 15-mm STEL

**NOTE 1:** Small quantities of formaldehyde in the form of gas may be emitted from Braewood® depending on the storage conditions. Under our testing, any formaldehyde emissions from Braewood® were under the OSHA exposure limits. Small quantities of formaldehyde may also be emitted from certain finishes applied by the customer to Braewood®, as well as substrate materials to which Braewood® may be bonded. Emissions decrease through time as the veneer ages.

**NOTE 2:** Wood dust may be created in sawing, sanding, or otherwise machining Braewood®. By itself, Braewood® does not emit wood dust.



### III. Physical Properties

Braewood® is a composite wood veneer bonded to phenolic resin impregnated kraft paper. The composite veneer is composed of layers of dyed hardwood veneer bonded together with urea-formaldehyde adhesive:

Specific Gravity -	Variable, but generally between 0.3 and 1.0
Boiling Point	- Not Applicable
Melting Point	- " "
Vapor Pressure	- " "
Vapor Density	- " "
Evaporation Rate -	- " "
Volatile by Volume	- " "
Solubility in Water	- Essentially insoluble

This applies to products which have not been finished or treated.

### IV. Fire and Explosion Hazard Data

Flash Point.....	Not applicable
Autoignition Temperature..	Not available (will depend upon duration of exposure to heat source and other variables).
Explosive Limits in Air.....	See below under "Unusual Fire and Explosion Hazards" "Braewood® by itself does not present an explosion hazard.
Extinguishing Media.....	Water, Carbon Dioxide, Sand
Special Fire Fighting Procedures.....	None
Unusual Fire and Explosion Hazards.....	Sawing, sanding or machining can produce wood dust as a by-product which may present an explosion hazard if a dust cloud contacts an ignition source. An airborne concentration of 40 grams of dust per cubic meter of air is often used as the LEL for wood dust.

### V. Reactivity

Stable under normal conditions. Avoid contact with open flame or temperatures which will cause wood to ignite or burn. Avoid contact with strong oxidizers. High temperatures and high relative humidity increases the rate of formaldehyde emissions from Braewood®.

### VI. Precautions for Safe Handling and Use

1. Provide adequate ventilation to reduce the possible build-up of formaldehyde gas, particularly when high indoor temperatures occur. Handle in a well-ventilated area with gloves to avoid prolonged skin contact. Avoid open flames or excessive heat sources.

2. Waste disposal - Incinerate or landfill in accordance with local, state, and federal regulations.
3. Store in a safe, clean, well-ventilated area in accordance with all local industrial codes and laws.

**VII. Health Hazard Data**

The presence or absence of many symptoms listed depends on the level of formaldehyde gas and wood dust and other factors in the work place. Braewood® is only one of many potential sources of formaldehyde and wood dust in the work place.

	<u>Formaldehyde Gas</u>	<u>Wood Dust</u>
Primary Routes of Exposure	Inhalation	Inhalation Skin contact
<b>Acute Hazards</b> Eye Contact	May cause temporary irritation resulting in a burning sensation in eyes, nose and throat.	May cause temporary irritation
Remedy	Ventilate work area with outside air to reduce formaldehyde levels	Flush with water to remove dust particles
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	<u>Formaldehyde Gas</u>	<u>Wood Dust</u>
Skin contact	Formaldehyde in liquid or solid state may cause contact dermatitis due to irritation, or to allergy in some sensitized individuals. However, contact dermatitis is unlikely to occur as a result of contact with Braewood® since any formaldehyde released would normally be in small quantities of formaldehyde gas.	May cause skin irritation and skin rash
Remedy	Sensitized persons should be removed from work area where contact occurs. Wear protective gloves.	Wear protective clothing such as long sleeved shirts and gloves and use washing facilities.

	<u>Formaldehyde Gas</u>	<u>Wood Dust</u>
Inhalation	Temporary irritation to eyes, nose and throat.	Unpleasant feeling in nasal passages, dryness of nose, sneezing, and dry cough
Remedy	Wear respirators whenever PELs may be exceeded. Move to fresh air areas.	Move to fresh air areas

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	<u>Formaldehyde Gas</u>	<u>Wood Dust</u>
<b>Chronic Health Hazards</b>	<p>Laboratory animals exposed to 14-15 ppm of formaldehyde gas developed nasal cancer. Such levels are far above those normally observed in the workplace and those permitted by OSHA.</p> <p>A Universities Associated for Research and Education in Pathology, Inc. (UAREP) panel of experts, after reviewing more than 30 epidemiological studies, concluded that "for no malignancy in man is there convincing evidence of a relationship with formaldehyde exposure" and "that if a relationship does exist, the excess risk in absolute terms, must be small."</p> <p>Listed by IARC as an animal and B-2 probable human carcinogen. Listed by NTP as an animal carcinogen.</p> <p>Regulated by OSHA as a potential cancer agent.</p>	<p>May cause nasal dryness, irritation and obstruction. Coughing, wheezing, and sneezing; sinusitis and prolonged colds have also been reported.</p> <p>Depending on species, may cause respiratory sensitization and/or irritation. Prolonged exposure to wood dust has been reported by some observers to be associated with nasal cancer. Listed by IARC as a Group I carcinogen.</p>

**GENERALLY APPLICABLE CONTROL MEASURES**

**Ventilation:** Provide adequate general and local exhaust ventilation to keep airborne contaminant concentration levels below the OSHA PELs.

**Personal Protective Equipment:** Wear goggles or safety glasses when manufacturing or machining the product. Wear NIOSH/MSHA approved respirator when the allowable exposure limits may be exceeded. Other protective equipment such as gloves and outer garments may be needed depending on dust conditions.

**EMERGENCY AND FIRST AID PROCEDURES**

Eyes.....	Flush eyes with large amounts of water. Remove to fresh air. If irritation persists, get medical attention.
Skin.....	Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs.
Inhalation.....	Remove to fresh air. Get medical advice if persistent irritation, severe coughing or breathing difficulty occurs.
Ingestion.....	Not applicable

**IMPORTANT**

Brookside Veneers Ltd. believes the information contained in this document was accurate at the time of preparation and was compiled using sources believed to be reliable. Brookside Veneers Ltd. makes no express or implied warranty concerning the accuracy or completeness of the information presented. If a user is aware of other relevant information related to the processing of Braewood® in the user's work place, they should consider including such information in the preparation of their own safety sheet for their work place. It is the responsibility of the user to comply with local, state, or federal regulations concerning the storage, use, processing and disposal of Braewood®. It is the responsibility of the user to insure that this document is the most current version available.

**This safety data sheet does not add to, amend, or in any way supersede the limited warranty on Braewood®, nor does this document create any other warranties, express or implied. Contact Brookside Veneers Ltd. for a copy of the limited warranty offered on Braewood®.**

# PRE FINISHED

DENOMINATION OF PRODUCT: NOT TARNISHING BASE  
POLYURETANIC "EXTRA"

PRODUCTION IDENTIFICATION: COMPONENT FOR POLYUR LACQUER

PHYSICAL STATUS: LIQUID - VISCOUS

SPECIFIC WEIGHT: 0.983 KG/lt

FLASH POINT: INFERIOR TO 21 DEGREES

ESSENTIAL COMPOSITION ELEMENTS:  
METILISOBUTILCHETONE  
XILOLO (ISOMERIC MIXTURE)  
ETHYLGLYCOL ACETATE  
FOREIGN SOLVENTS  
VARIOUS TIERS  
ADDITIVE

CLASSIFICATION OF DANGER: ACCORDING TO LAW 256/74, AS PER  
CEE 77/728 DIRECTIVE

SYMBOL: Xn F

RISKS R: EASILY INFLAMMABLE  
DANGEROUS FOR INHALATION AND  
EYE CONTACT.

SAFETY ADVICE: KEEP OUT OF THE REACH OF THE  
CHILDREN.  
KEEP AWAY FROM FLAME AND SPARKS  
NO SMOKING  
AVOID EYE CONTACT  
DO NOT THROW AWAY WASTES INTO  
SEWERAGE.

ADVICE FOR USAGE AND STORAGE:  
STORE IN COOL, DRY AND AIRY  
PLACE.  
STORE THE TINS WELL CLOSED.  
DURING USAGE MAKE SURE THAT  
THE ROOM IS WELL VENTILATED.  
USE SUITABLE PROTECTIVE  
CLOTHES.  
FOR WASTES ELIMINATION SEND  
THEM TO SPECIAL EQUIPPED  
DEPOSIT.

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