

MAGNA GLULAM	ETH. PM: MSDS	
Document: MAGNA GLULAM MSDS	Approved by:	
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IDENTIFICATION:

<u>Product Name</u>	<u>Applicable AS/NZS Standard</u>
MAGNA GLULAM	AS/NZS 1328 – 1 & 2 1998 (Glulam Manufacturing Standard) AS 5068 – 2006 (Timber-Finger joints in Structural Products) AS 1720.1 – 1997 (Timber Structures – Design Methods)

USE:

Use in residential, commercial, and industrial structures as structural elements and as general building material.

PRODUCT DESCRIPTION:

MAGNA GLULAM is produced by jointing small section size Merbau timber (shooks) with structural end joints (finger-joints) of known quality and strength and face bonding the resultant laminae into larger structural members using A bond adhesives in a manufacturing process in accordance with AS/NZS 1328 – 1998 and AS 5068 – 2006. Individual shook size and length is described as a recovery material which would normally be wasted, to fully utilize the resource into a value-added engineered timber product.

ODOUR:

MAGNA GLULAM, when newly manufactured and subsequently sawn, machined drilled etc., has the distinctive odour of the base material, Merbau (*Intsia bijuga* & *I. palembanica*).

Auto ignition Temperature	Not Applicable
Boiling Point	Not Applicable
Flammability in air	Fine dust generated during machining, sawing, drilling can ignite spontaneously under certain conditions i.e., confined spaces.
Flash Point	Not Applicable

Melting Point	Not Applicable
Solubility in Water	insoluble
Specific Gravity	Not Available
Vapour Density	Not Applicable
Vapour Pressure	Not Applicable

COMPONENTS OF MAGNA GLULAM ARE:

Substance	Cas No#	Proportion by Weight as a Percentage
Sawn Timber (Merbau)	-	> 99.6%
Phenol Resorcinol Formaldehyde PRF.	40798-65-0	> 0.4%

N. B. The timber is bonded with the resin under heat and pressure to achieve a cured glueline. Formaldehyde emissions from the exposed glueline are so small they cannot be measured.

HEALTH HAZARD INFORMATION:

MAGNA GLULAM used in service for the purpose it was designed for is not classified as hazardous.

When in service and sealed with clear varnish, polyurethanes, oil sealers or paints all emissions of free formaldehyde are completely contained.

The level of free formaldehyde emissions from an unsealed product in service, if possible to measure, is well below the Worksafe Australia Occupational Exposure Standard of 1.0 ppm on time weighted average (TWA).

Cured resin is chemically inert and will not affect health.

Wood dust which is created by sawing, sanding, or machining MAGNA GLULAM products may cause irritation of the nose, throat, eyes and skin. Inhalation of wood dust generally can affect the mucus membrane in some people and may increase the risk of paranasal sinus cancers. Some wood dust may

cause allergic dermatitis or asthma. PPE (personal protective equipment) should be used when working with all wood products where wood dust is created.

EFFECTS OF EXPOSURE TO DUST:

Acute	
Eyes	Will cause irritation and redness
Skin	May Irritate the skin causing itching and a rash
Inhaled	Wood dust may irritate the throat and lungs for people with upper respiratory tract or chest complaints.

Chronic	
Long term exposure to wood dust may increase the risk of dermatitis, asthma, and/or throat disease in some people.	

First Aid	
Eyes	Flush with flowing water for several minutes. If irritation persists, seek medical aid.
Skin	Wash with natural soap and water.
Inhaled	Move from dusty area.

Precautions.	
Exposure limit	Exposure to wood dust from MAGNA GLULAM should be kept to a minimum of 1.0mg/M3 TWA.
Environmental Controls	All work on MAGNA GLULAM should be carried out in a manner to minimize the production of wood dust. Equipment should be fitted with exhaust systems capable of capturing and storing the wood dust at the source. In addition, work areas should be well ventilated and free wood dust cleaned regularly.

Skin Protection.	Protective clothing such as gloves, aprons and long sleeve shirts and trousers will protect sensitive skins. Do not scratch or rub skin which is irritated or sensitive.
Respiratory Precautions	In the cases where dust created cannot be captured such as sawing, routing etc., use a full face respirator. Respirators should comply with AS/NZS 1716.
Eye Precautions.	Safety glasses should be worn when machining.
Flammability.	MAGNA GLULAM products will burn but are extremely difficult to ignite. The resultant wood dust from machining processing can ignite spontaneously in confined spaces. Always work in well ventilated areas and avoid application of direct heat and sparks. Smoking in work areas should not be allowed.

Safe Handling and Storage.	
Storage	MAGNA GLULAM should be stored in accordance with GLTAA technical data File No 1.
Transport	There are no special handling and transport requirements, except for the correct protection of the product. Refer to GLTAA Data File No 1.
Disposal of off cuts	Off cuts of MAGNA GLULAM shall be disposed of in approved landfill sites or burnt in approved furnaces. Wood dust should be cleaned up either by vacuuming or wet sweeping.

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MAGNA GLULAM has compiled this MSDS based on the best information at the time of issue and no responsibility will be accepted for errors and omissions. This document and the recommendations contained therein shall not be construed as recommendations to use MAGNA GLULAM products in breach of any State or Federal legislation. As the use of our products and the recommendations contained therein can be used under conditions beyond the control of the manufacturer, no responsibility will be accepted for any loss or damage caused by any person/s action or refraining from action as a result of this information.