



MATERIAL SAFETY DATA SHEET

Product: **Epo Bond HT 110**

1: IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product Name: **Epo Bond HT 110 (Resin & Curing Agent)**
Application: **Epoxy Adhesive for All Types of Application**
Company: **LAMACO SYSTEM SDN. BHD.**
Address: **407, Jalan Perusahaan 6, Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah. Malaysia**
Http: www.lamaco.com
Email: info@lamaco.com
Telephone: **+ + 60 - 4 - 734 5555**
Fax: **+ + 60 - 4 - 772 4444**

2: PHYSICAL DESCRIPTION / PROPERTIES

Appearance: **Form: Beige homogenous thixotropic paste
with a feint odour**
Boiling /Melting point: **Boils at > 200 (deg.C)**
Vapour pressureRisk : **Negligible (Pascals @ 20 deg.C)**
Density: **1.5**
Flash Point: **172 (deg.C Closed Cup method)**
Flammability Limits: **Upper Not available Lower N. Av (% in air)**
Solubility in water: **Insoluble (g/L @ 20 deg .C)**

3: OTHER PROPERTIES

Thermal decomposition: **>200°**

4: INGREDIENTS

Chemical Entity:	CAS No.	Proportion
Bisphenol A epoxy resin	25068-38-6	30-60%
Buthanedioldiglycidyl ether	2425-79-8	10-30%
Bisphenol F epoxy resin	55492-52-9	10-30%
Materials not hazardous to criteria of Worksafe		To 100%



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4. HEALTH EFFECTS - ACUTE

- Swallowed: No adverse health effects expected , however large amount may cause nausea and vomiting. LD50 (Rat , oral):> 2000 mg/kg (calculated from raw material data).
- Eye: Irritating to the eyes.
Skin: Irritating to the skin. Repeated and/or prolonged skin contact can result in skin sensitisation.
- Inhaled: Not expected to be irritating to the respiratory system under normal conditions of use.

5: HEALTH EFFECTS - CHRONIC

Repeated or prolonged contact with low molecular weight (liquid) epoxy resins may results in skin sensitisation.

6: FIRST AID

- Swallowed: Give water to drink. DO not induce vomiting.
- Eye: Immediately flood eyes with plenty of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
- Skin: Immediately wash affected skin area with soap and water. Do NOT use solvents. Immediately remove contaminated clothing and wash before reuse.
- Inhaled: Remove persons from contaminated area.
- First aid facility: Eye wash station. Showering facility.
- Advice to Doctor: No Specific antidote. Treat symptomatically. Poisons Information Centres in each State capital city can provide advice for scheduled poisons.

7: PRECAUTION FOR USE

- TWA: Worksafe None established.
STEL: Worksafe None established.



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8: ENGINEERING CONTROLS

If cured materials made from this product is to be cut or sanded, ensure that dust is to be kept below the Worksafe Exposure Standard for inspirable dusts (10mg/m³) or the ACGIH Exposure Standard for respirable dusts (3mg/3).

Avoid exceeding the Exposure Standards by use of adequate ventilation. If this is not possible, use appropriate personal protective equipment (meeting the requirements of AS/ NZS 1715 and AS /NZS 1716)

Wherever possible , the workplace must be ventilated sufficiently to ensure that exposure standards are met. Ensure airflow, where this product is being used, is directed away from the operators.

9: PERSONAL PROTECTION

Avoid eye and repeated or prolonged skin contact.

Wear overalls , chemical resistant goggles and impervious gloves (as per AS 2161, or as recommended by supplier).

Wash hands thoroughly before eating, smoking or using toilet facilities. Thoroughly clean contaminated clothing and other personal protective equipment before storage or reuse.

10: FLAMMABILITY

Combustible liquid. Do not smoke while using this product . Product is not flammable, therefore does not need to be handled, used or stored in a flame-proofed area.

11: SAFE HANDLING INFORMATION

Storage & Transport

General:	Store product in a dry, cool location.		
Storage:	Keep containers sealed when not in use.		
UN Number:	FREE		
Dangerous Goods Class:	Packaging		
Subsidiary Risk:	Not applicable	group:	Not applicable
HAZCHEM Code:	Not applicable		
IATA Class:	Not applicable		
IMDG Reference:	Not applicable		
Minimum temperature:	5°C		
Maximum temperature:	35°C		
Incompatible DG Classes:	None		



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Incompatible Receptacle: **None**
Incompatible Substances: **Oxidizing agents, acids, bases, amines.**
Emergency Procedure Guide Date: **Not applicable**

Product should be stored in properly resealed container if not all used in the first application. Product should be stored in a cool, dry place, away from incompatible substances.

12: SPILL AND DISPOSAL

In case of spill, wear personal protective equipment as indicated above. Spilt material should be absorbed into dry, inert material (eg. sand) , which then can be put into appropriately labelled drums. The wasted material can be disposed of by incineration (preferably high temperature), by an approved agent according to local regulations.

13: FIRE / EXPLOSION HAZARD

Extinguishing Media: **Water mist , foam , carbon dioxide, dry powder.**

Hazardous combustion products:

Carbon monoxide, carbon dioxide and other possibly toxic gases and vapours are emitted on burning. Avoid breathing products of combustion. Fire fighters to wear self contained breathing apparatus.

Product will not decompose explosively.

Product as received will not present a dust explosion hazard. However ,should cured material made using this product be machined or sanded , a dust explosion hazard may be created. Therefore all dust generated should be minimised or removed as quickly as possible, preferably by using localized extraction.

14: ENVIRONMENTAL DATA

Fish toxicity: **Epoxy resins are classed as being toxic to aquatic organism and may cause long term adverse effects in the aquatic environment.**

OECD Biological degradation: **Product is not readily biodegradable.**

Prevent spillage from entering waterways or drains. If in doubt, contact LAMACO SYSTEM SDN BHD, using the contact details listed below.

All components of this product are registered on the Australian Inventory of Chemical Substances.



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FURTHER INFORMATION

EEC classification/labeling: **Irritant (Xi)**

R-Phrase: **Irritating to eyes and skin.
May cause sensitization by skin contact.**

S-phrase: **In case of contact with eyes, rinse immediately with plenty of water, and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Wear suitable gloves and eye/face protection.**

This MSDS summarises our best knowledge of the Health and safety information of the product and how to safely handle the product. Each user should read this MDSF and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



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