

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: MBRACE® LAMINATE 460/1500, 165/2500, 170/3100 & 210/3300

Other Name: None allocated

Recommended Use: Used with resin systems for structural repairs.

Company: BASF Construction Chemicals Australia Pty. Ltd. ABN 46 000 450 288
BASF New Zealand Ltd.

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2. HAZARDS IDENTIFICATION

Hazard Classification: NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.
Non Dangerous Goods for transport according to the ADG code.
Non Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and NOHSC.

Hazard Designation: None

HSNO Classification: None

Risk Phrase(s): None

Safety Phrase(s): None

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Carbon fibre	Proprietary	≥ 50%
Polymerized resin	Proprietary	≤ 50%

4. FIRST AID MEASURES

Inhalation: Not a normal route of injury. However, if inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention

Eyes: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Remove contaminated clothing. Wash contacted areas thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

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5. FIRE FIGHTING MEASURES

<u>Suitable extinguishing media:</u>	Use extinguishing agent suitable for type of surrounding fire e.g. Water Spray or Fog, Foam, Carbon dioxide (CO ₂) and Dry Chemical
<u>Hazards from combustion products:</u>	This material is not flammable. However, in a fire situation or at extreme temperatures, gases/vapours/fumes of carbon monoxide and dioxide can be produced.
<u>Precautions/equipment for fire fighters:</u>	None known
<u>Hazchem code:</u>	None allocated

6. ACCIDENTAL RELEASE MEASURES

<u>Methods and materials for containment and clean up:</u>	Shovel into appropriately labelled and sealed containers. Disposal should be effected by an approved waste disposal organisation according to local regulations. Refer to the local Waste Management Authority.
<u>Environmental precautions:</u>	Do not discharge into sewers or waterways.

7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Wear personal protective equipment (PPE) as per Section 8. Avoid handling which leads to dust generation. Avoid inhalation of dust. Avoid skin contact.
<u>Conditions for safe storage:</u>	Store at moderate temperatures. Keep containers tightly closed; store under cool dry conditions. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Ventilation:</u>	Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn.
<u>Exposure Standards</u>	Nuisance Dust 8 Hour TWA 10 mg/m ³ Inhalable; 4 mg/m ³ Respirable
<u>Personal Protective Equipment (PPE):</u>	
<u>Respiratory protection:</u>	Respiratory protection must be used if air concentration exceeds acceptable level. Dust filter P2 (for fine dust).
<u>Glove type (AS2161):</u>	No specific hand protection is noted but it is still advisable to limit skin contact by wearing impervious gloves e.g. PVC or nitrile rubber.
<u>Eye protection:</u>	Chemical worker's goggles, well fitting safety glasses or full face shield.
<u>Clothing:</u>	No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.
<u>Other:</u>	Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Solid black strips of various dimensions.
<u>Odour:</u>	Odourless
<u>pH:</u>	Not applicable.

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Density: 1.45 – 1.65 kg/m³ @ 20°C

Solubility in water: Insoluble.

Decomposition temperature: > 200°C

Flash point: Non flammable.

10. STABILITY AND REACTIVITY

Chemical stability: Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact.

Incompatible materials: Strong oxidising agents.

Hazardous decomposition products: In a fire situation or at extreme temperatures, gases/vapours/fumes of carbon monoxide and dioxide can be produced.

Hazardous reactions: None known.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary: No specific health warnings noted.

Inhalation: Dust may irritate respiratory system or lungs.

Eyes: Particles in the eyes because of abrasive action may cause irritation and smarting.

Skin contact: Powder may irritate skin.

Ingestion: May cause discomfort if swallowed.

Toxicity Data: Nuisance Dust 8 Hour TWA 10 mg/m³ Inhalable; 4 mg/m³ Respirable

12. ECOLOGICAL INFORMATION

Ecology: Not regarded as dangerous for the environment. Do not discharge into drains, sewers or waterways.

Marine pollutant: Not known.

13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Recover and reclaim or recycle, if practical. Ensure containers are sealed. Avoid dust generation. Dispose of to an approved land fill site. Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

Special precautions for landfill or incineration: None known.

14. TRANSPORT INFORMATION

UN Number: None allocated

UN Proper Shipping Name: Not regulated

Dangerous Goods Class: None allocated

Subsidiary Risk: None allocated

Packing Group: None allocated

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Hazchem Code: None allocated

15. REGULATORY INFORMATION

NICNAS / AICS:	All components are listed
Poisons Schedule:	Not Scheduled
HSNO Classifications:	Not required
ERMA Group Standard:	Not required
ERMA / NZIoC:	All components are listed
Tracking:	Not required
Approved Handler:	Not required

16. OTHER INFORMATION

CAUTION: Carbon composites are electrical conductors. Take the necessary precautions to remove all risk of unintentional contact with a source of electricity.

Reason for issue: Update to combined Australia and New Zealand MSDS

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS 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. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.