

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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

Other name: None allocated

Product code: Various

Recommended use: Used with resin systems for structural repairs.

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

Address: 11 Stanton Road, Seven Hills, NSW, 2147 Australia
45 William Pickering Drive, Albany, Auckland, New Zealand

Telephone number: +61 2 8811 4200 +64 9 414 7233

Facsimile: +61 2 8811 3299 +64 9 414 7244

Emergency telephone number: 0417 658 263

2. HAZARDS IDENTIFICATION

Hazard classification: NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.
Non Hazardous substance according to NOHSC
Non Dangerous goods for transport according to the ADG code

Hazard Designation: None allocated

Risk phrase(s): None allocated

Safety phrase(s): None allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

All ingredients listed on AICS.

4. FIRST AID MEASURES

Inhalation: Not a normal route of injury. 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. 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 develops seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Not a normal route of injury. 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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: As for surrounding fire.

Hazards from combustion products: 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.

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Precautions and equipment for fire fighters: As for surrounding fire.

Hazchem code: None allocated.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and clean up: Shovel into appropriately labelled and sealed containers. Disposal should be effected by an approved waste disposal organisation according to local regulations.

Environmental precautions: Do not allow to enter into drains, sewers or waterways.

7. HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment (PPE) as per Section 8. Avoid handling which leads to dust generation. Avoid inhalation of dust.

Conditions for safe storage: Store at moderate temperatures. Keep containers tightly closed; store under cool dry conditions. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: 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.

Exposure Standards Nuisance Dust 8 Hour TWA 10 mg/m³ Inhalable; 4 mg/m³ Respirable

Personal Protective Equipment (PPE):

Respiratory protection: Not normally required. However, if dust is present, respiratory protection must be used if air concentration exceeds acceptable level. Dust filter P2 (for fine dust).

Glove type (AS2161): 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.

Eye protection: Chemical worker's goggles, well fitting safety glasses or full face shield.

Clothing: No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution.

Other: 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

Appearance: Solid black strips of various dimensions.

Odour: Odourless

pH: Not applicable.

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 stored in cool dry conditions. Not sensitive to mechanical impact.

Incompatible materials: No information available.

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

Hazardous reactions: None known.

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11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary:</u>	No specific health warnings noted.
<u>Inhalation:</u>	Dust, if present, may irritate respiratory system or lungs.
<u>Eyes:</u>	Particles in the eyes because of abrasive action may cause irritation and smarting.
<u>Skin contact:</u>	No reaction known. Dust, if present, may irritate skin.
<u>Ingestion:</u>	May cause discomfort if swallowed.
<u>Toxicity Data:</u>	Nuisance Dust 8 Hour TWA 10 mg/m ³ Inhalable; 4 mg/m ³ Respirable

12. ECOLOGICAL INFORMATION

<u>Ecology:</u>	Not regarded as dangerous for the environment. Not biodegradable. Do not discharge into drains, sewers or waterways.
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13. DISPOSAL CONSIDERATIONS

<u>Disposal method and containers:</u>	Recover and reclaim or recycle, if practical. Avoid dust generation. Dispose of to an approved land fill site. Refer to Waste Management Authority.
<u>Special precautions for landfill or incineration:</u>	None known

14. TRANSPORT INFORMATION

<u>UN number:</u>	None allocated	<u>EPG card:</u>	None allocated
<u>UN proper shipping name:</u>	None allocated.	<u>Packing group:</u>	None allocated
<u>Dangerous goods class:</u>	None allocated	<u>Hazchem code:</u>	None allocated
<u>Subsidiary risk:</u>	None allocated	<u>Poisons schedule:</u>	None allocated

15. REGULATORY INFORMATION

<u>Hazard Designation</u>	None allocated
<u>Risk phrase(s):</u>	None allocated
<u>Safety phrase(s):</u>	None allocated

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: Delete size 155/2000 and add size 210/3300.

Based on supplier MSDS Revision 3; Dated 09/01/2008

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.