



The Chemical Company

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 SATURANT PART A**

Other name: None allocated

Recommended use: Part A of a two component, epoxy saturant for the MBrace carbon fibre system.

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

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

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2. HAZARDS IDENTIFICATION

Hazard classification: HAZARDOUS SUBSTANCE. **NON DANGEROUS GOODS
Non Dangerous goods for transport according to ADG 7 (Special provision AU01)
**Dangerous good for transport according to IMDG / IATA
Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

Hazard Designation: Xi Irritant
N Dangerous to the environment

HSNO Classification

6.1D	Acutely toxic (dermal, inhalation)
6.3A	Irritating to the skin
6.4A	Irritating to the eye
6.5B	Contact sensitiser (dermal)
9.1B	Toxic to aquatic life with long lasting effects

Risk phrase(s):

R20/21	Harmful by inhalation and in contact with skin.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrase(s):

S2	Keep out of reach of children.
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of soap and water.
S37/39	Wear suitable gloves and eye/face protection
S57	Use appropriate containment to avoid environmental contamination
S60	This material and its container must be disposed of as hazardous waste.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Bisphenol A epoxy resin	25085-99-8	> 60%
Alkyl glycidyl ether	68609-97-2	10 - <30%
Amorphous silica	67762-90-7	< 10%
Non hazardous ingredients		To 100%

4. FIRST AID MEASURES

<u>Inhalation:</u>	Use in well ventilated areas. If inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.
<u>Eyes:</u>	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.
<u>Skin:</u>	Remove contaminated clothing. Remove excess from skin mechanically. Wash contacted areas thoroughly with soap and water. If irritation develops seek medical attention. Wash contaminated clothing before re-use.
<u>Ingestion:</u>	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

<u>Suitable extinguishing media:</u>	Water Spray, Foam, Carbon Dioxide (CO ₂) Dry Powder.
<u>Hazards from combustion products:</u>	Oxides of carbon and other possibly toxic fumes from fire.
<u>Precautions and equipment for fire fighters:</u>	As for surrounding fire.
<u>Hazchem code:</u>	3Z

6. ACCIDENTAL RELEASE MEASURES

<u>Methods and materials for containment and clean up:</u>	Spills should be contained by bunding and absorbing with dry inert filler (e.g. vermiculite, sand, soil etc), which can then be shovelled into appropriately labelled drums. Disposal should be effected by an approved waste disposal organisation according to local regulations.
<u>Environmental precautions:</u>	Avoid subsoil penetration. Do not allow to enter into drains, sewers or waterways.

7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Wear personal protective equipment (PPE) as per Section 8. Provide for good ventilation. Avoid skin contact. Avoid generation of aerosols.
<u>Conditions for safe storage:</u>	Keep containers tightly closed; store under cool dry conditions. Keep away from food and drink. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Engineering Controls:</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.
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<u>Exposure Standards</u>	None established.
<u>Personal Protective Equipment (PPE):</u>	
<u>Respiratory protection:</u>	Type A1 if ventilation is inadequate
<u>Glove type (AS2161):</u>	Chemical resistant, impervious gloves e.g. PVC, butyl rubber or nitrile rubber gauntlets (consult your local glove supplier/manufacturer).
<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>	Blue translucent liquid
<u>Odour:</u>	Mild characteristic odour.
<u>pH:</u>	N/A
<u>Solubility in water:</u>	Insoluble
<u>Specific gravity:</u>	0.950 - 1.150 g/cm ³ at 23°C
<u>Boiling point:</u>	> 200°C
<u>Flash point:</u>	Not applicable
<u>Vapour pressure:</u>	Not available

10. STABILITY AND REACTIVITY

<u>Chemical stability:</u>	Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact.
<u>Incompatible materials:</u>	Strong acids, bases and oxidising agents.
<u>Hazardous decomposition products:</u>	May evolve toxic gases if heated to decomposition.
<u>Hazardous reactions:</u>	Reacts with amines to polymerise releasing heat. Possible danger when mixed and left in volumes > 10 litres.

11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary:</u>	Susceptible individuals may develop allergic reactions such as dermatitis on a single significant skin exposure or may become sensitised to the material on repeated contact. Hence it is imperative that all forms of exposure be kept to an absolute minimum.
<u>Inhalation:</u>	May cause irritation to nose and mucous membranes
<u>Eyes:</u>	Irritant
<u>Skin contact:</u>	Irritant. May cause sensitisation by skin contact.
<u>Ingestion:</u>	Oral, rat LD ₅₀ > 2000mg/kg

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12. ECOLOGICAL INFORMATION

Ecology: Do not discharge into drains, sewers or waterways. Do not allow to be absorbed into soil. Degradability not determined. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is not readily biodegradable. Material is expected to cause long-term adverse effects on the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Ensure containers are sealed. Avoid mist generation. Dispose of to an approved land fill site. Refer to Waste Management Authority.

Special precautions (landfill/incineration): None known

14. TRANSPORT INFORMATION

Not subject to the ADG Code when transported by Road or Rail. (ADG 7, Special Provision AU01).

Dangerous goods for transport according to IMDG / IATA

UN number: 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN)

Dangerous goods class: 9

Subsidiary risk: None assigned

Packing group: III

Hazchem code: 3Z

15. REGULATORY INFORMATION

NICNAS / AICS: All components are listed

Poisons Schedule: Schedule 5

HSNO Classifications: 6.1D, 6.3A, 6.4A, 6.5B, 9.1B

ERMA Group Standard: HSR002544

ERMA / NZIoC: All components are listed

Tracking: Not required

Approved Handler: Not required

16. OTHER INFORMATION

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.