

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: MBRACE LAMINATE ADHESIVE PART B

Other name: None allocated

Product code: 50699789

Recommended use: Part B of a two component, thixotropic epoxy adhesive.

Supplier: BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288
BASF 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: HAZARDOUS SUBSTANCE. DANGEROUS GOODS
Hazardous substance according to the criteria of NOHSC
Dangerous goods for transport according to the ADG code
Harmful if swallowed. Causes burns. May cause sensitization by skin contact.

Hazard Designation: C; Corrosive; Xi: Irritant; Xn: Harmful.
Silica, Crystalline Quartz – Human Carcinogen

Risk phrase(s): R20/21/22; R34; R43

Safety phrase(s): S26; S28; S36/37/39; S51

For full descriptions of R and S phrases, see Section 15.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation: Hardener for concrete adhesive resins based on amines

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Quartz Filler Blend	14808-60-7	> 60%
Calcium carbonate	471-34-1	< 10%
Isophoronediamine	2855-13-2	10 - < 30%
Salicylic acid	69-72-7	< 10%
Non hazardous ingredients		To 100%

All ingredients listed on AICS.

4. FIRST AID MEASURES

Inhalation: 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.

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.

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Skin: 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.

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: Foam, CO₂ and Dry Chemical

Hazards from combustion products: Not normally combustible. Oxides of carbon and nitrogen and other possibly toxic fumes from fire.

Precautions and equipment for fire fighters: Full protective clothing (as per personal protection in section 8).

Hazchem code: 3X

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and clean up: Spills should be contained by dyking and absorbing with dry inert filler (e.g. vermiculite, sand or soil), which can then be collected and removed mechanically by shovelling into appropriately labelled drums. 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. Provide for good ventilation. Avoid inhalation of vapours or fumes. Avoid skin and eye contact.

Conditions for safe storage: 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 No data exists for the end product. Values below are for the raw material only. Exposure to respirable dust would only be from grinding or otherwise abrading the hardened material.

Silica, Crystalline - Quartz (14808-60-7)

ES-TWA: 0.1 mg/m³ (Silica Quartz, respirable, NOHSC)

ES-TWA#: 0.1 mg/m³ (QLD); 0.15 mg/m³ (NSW)

WES-TWA: 0.2 mg/m³

Personal Protective Equipment (PPE):

Respiratory protection: If ventilation inadequate, use a dual cartridge respirator suitable for amine vapours or air fed respirator.

Glove type (AS2161): Impervious gloves e.g. PVC or nitrile rubber gauntlets.

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

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Clothing: 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.

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: Red, thick paste
Odour: Ammoniacal odour.
pH: > 12
Solubility in water: Insoluble. Hydrophobic.
Specific gravity: 1.42 - 1.82 kg/L at 23°C
Flash point: > 100°C

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: Keep away from epoxy resins, oxidising agents, alkalis and acids.
Hazardous decomposition products: Oxides of carbon and other possibly toxic fumes from fire or if heated to decomposition.
Hazardous reactions: Reacts with epoxy resins generating heat to form a rigid mass. In large volumes this could be significant with possible fire resulting and release of fumes.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary: Susceptible individuals may develop allergic reactions such as dermatitis or asthma like symptoms on a single significant skin exposure or may become sensitised to the material on repeated contact. Corrosive to eyes and skin. May cause sensitisation by skin contact or by inhalation.

Inhalation: Harmful by inhalation. Respiratory tract Irritant. No data available for product.
Values below are for the raw material only. Exposure to respirable dust would only be from grinding or otherwise abrading the hardened material.

Silica, Crystalline - Quartz (14808-60-7)

Carcinogenicity: Classified as a human carcinogen (IARC Group 1)

Hexavalent Chromium (Contaminant) (Not Available)

Carcinogenicity: Confirmed human carcinogen (IARC Group 1)

Eyes: Corrosive. May cause permanent damage to the eye.

Skin contact: Corrosive. Repeated or prolonged exposure may cause dermatitis or sensitisation

Ingestion: Harmful if swallowed. Oral, rat LD₅₀ > 1000mg/kg

12. ECOLOGICAL INFORMATION

Ecology: Do not discharge into drains, sewers or waterways. Degradability not determined.

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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 for landfill or incineration: None known

14. TRANSPORT INFORMATION

UN number: 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS ISOPHORONEDIAMINE)
Dangerous goods class: 8
Subsidiary risk: None allocated
EPG card: 8A1
Packing group: III
Hazchem code: 3X
Poisons schedule: 5

15. REGULATORY INFORMATION

<u>Hazard Designation</u>	C	Corrosive
	Xi	Irritant
	Xn	Harmful
<u>Risk phrase(s):</u>	R20/21/22	Harmful by inhalation, in contact with the skin and if swallowed
	R34	Causes burns
	R43	May cause sensitisation by skin contact
<u>Safety phrase(s):</u>	S24/25	Avoid contact with skin and eyes
	S26	In case of contact with eyes rinse immediately with plenty of water and seek medical attention.
	S28	After contact with skin, wash immediately with plenty of water and seek medical attention
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
	S51	Use only in well ventilated areas.

16. OTHER INFORMATION

Reason for issue: Update health and safety data, UN No. New product code due to change of company to BASF and BASF system.

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.