

MATERIAL SAFETY DATA SHEET

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

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<u>Product name:</u>	CONGRESIVE 1446 PART A	
<u>Other name:</u>	None allocated	
<u>Recommended use:</u>	Part A of a two component, thixotropic, gun grade epoxy repair mortar.	
<u>Supplier:</u>	BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288	BASF New Zealand Ltd.
<u>Address:</u>	11 Stanton Road, Seven Hills, NSW, 2147 Australia	45 William Pickering Drive, Albany, Auckland, New Zealand
<u>Telephone number:</u>	+61 2 8811 4200	+64 9 414 7233
<u>Facsimile:</u>	+61 2 8811 3299	+64 9 414 7244
<u>Emergency telephone number:</u>	+61 417 658 263	

2. HAZARDS IDENTIFICATION

<u>Hazard classification:</u>	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	
<u>Hazard Designation:</u>	Xi Irritant N Dangerous to the environment Silica, Crystalline Quartz – Human Carcinogen	
<u>HSNO Classification</u>	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
	R36/38	Irritating to eyes and skin.
	R43	May cause sensitisation by skin contact
<u>Risk phrase(s):</u>	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
	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.
<u>Safety phrase(s):</u>	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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation:

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Bisphenol-A epoxy resin	25068-38-6	10 - <30%
Alkyl glycidyl ether	68609-97-2	< 10%
Crystalline silica, quartz	14808-60-7	30 - 60%
Non hazardous ingredients		To 100%

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.
- 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: Oxides of carbon, 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: 3Z

6. ACCIDENTAL RELEASE MEASURES

- Methods and materials for containment and clean up: Spills should be collected and removed mechanically. Material can be contained by absorbing with dry inert filler (vermiculite, sand or soil), which can then be shovelled 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 skin contact.
- Conditions for safe storage: Keep containers tightly closed; store under cool dry conditions. Store away from strong oxidising agents, amines, acids and alkalis. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls: 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

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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)NZ WES-TWA: 0.2 mg/m³**Personal Protective Equipment (PPE):**

<u>Respiratory protection:</u>	Type A1 if ventilation is inadequate. Fumes and vapours only.
<u>Glove type (AS2161):</u>	Impervious gloves e.g. PVC or nitrile rubber.
<u>Eye protection:</u>	Chemical worker's goggles or 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>	White to off-white thick, paste.
<u>Odour:</u>	Mild characteristic odour.
<u>pH:</u>	Not available
<u>Explosion Limit:</u>	Not applicable
<u>Solubility in water:</u>	Insoluble
<u>Specific gravity:</u>	1.48 - 1.58 g/cm ³ at 23°C
<u>Melting point:</u>	Not available
<u>Flash point:</u>	Not available
<u>Boiling point:</u>	> 200 °C

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>	Keep away from oxidising agents, amines, alkalis and acids.
<u>Hazardous decomposition products:</u>	May evolve toxic gases if heated to decomposition. Oxides of carbon and nitrogen and other possibly toxic fumes from fire.
<u>Hazardous reactions:</u>	In combination with amines produces heat and goes hard. In large volumes may be significant.

11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary:</u>	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. 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 membrane. Values below are for the raw material only. Exposure to respirable dust would only be from

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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)

<u>Eyes:</u>	May cause eye irritation and redness.
<u>Skin contact:</u>	Mild skin irritation and redness from prolonged contact.
<u>Ingestion:</u>	Only very slightly toxic [Oral, rat LD ₅₀ > 5000mg/kg]
<u>Toxicity Data:</u>	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. Hence it is imperative that all forms of exposure be kept to an absolute minimum

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Ensure containers are sealed. 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

<u>UN number:</u>	3082
<u>UN proper shipping name:</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN)
<u>Dangerous goods class:</u>	9
<u>Subsidiary risk:</u>	None assigned
<u>Packing group:</u>	III
<u>Hazchem code:</u>	3Z

15. REGULATORY INFORMATION

NICNAS / AICS:	All components are listed
Poisons Schedule:	Not Scheduled
HSNO Classifications:	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.



The Chemical Company

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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.