

**Section 1. Identification.**

Product identifier	ACE Epoxy Mortar Part B
Recommended use and restrictions on use.	Part B of a two component epoxy mortar/adhesive for civil engineering use, concrete repair and corrosion control.
Details of manufacturer	Australian Construction Epoxies 46 Chetwynd St., Loganholme Qld 4129. Australia +61 7 3806 1944 <a href="http://www.ace-epoxy.com.au">www.ace-epoxy.com.au</a>
Emergency Phone Number	Poisons Information Line 13 11 26

**Section 2. Hazard(s) Identification.**


Classification of the hazardous chemical

Acute Toxicity – Category 4

Eye Irritant - Category 2

Mild Skin Irritant - Category 3

Skin sensitizer – Category 1B

	Signal Word	Hazard Statements	Precautionary Statements
	Warning	Harmful if swallowed	Do not eat drink or smoke using this product. Call a POISON CENTRE or a doctor if you feel unwell. Rinse mouth. Do not induce vomiting.
	Warning	Causes serious eye irritation	Wear eye protection. IF IN EYES: Rinse with water for several minutes. Remove contact lenses if easy to do so. If eye irritation persists: get medical attention.
	Warning	Causes mild skin irritation	Wear protective gloves IF ON SKIN. Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
	Warning	May cause an allergic skin reaction.	Avoid breathing fumes. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Seek medical advice.

This product contains crystalline silica. No exposure to silica dust is likely with normal use of this product. Silica dust may be released by grinding or machining of the cured product. Use an approved dust respirator when grinding or machining the cured product. Crystalline silica is classified as a Class 1 Human Carcinogen according to IARC (International Agency for Research on Cancer). Repeated exposure to respirable crystalline silica dust may lead to silicosis or other serious delayed lung injury.

**Section 3. Composition and Information on Ingredients.**

Ingredients Name	Cas No.	Proportion
Polyamidoamine & modified aliphatic amine. Trade Secret.	Proprietary combination.	<30%
3,6-Diazaoctanethylenediamin	112-24-3	<10%
2-(1-Piperaziny)ethylamine	140-31-8	<10%
2,2'-Iminodiethanol	111-42-2	<10%

The composition of our products varies from time to time for technical and commercial reasons. Not all of the listed ingredients are present in any specific product, although any of them could be present. The classification and risk data and information covers all the possible ingredients.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**Section 4. First Aid Measures.**

Ingestion	<b>IF SWALLOWED:</b> Drink large quantity of water. Seek medical assistance.
Eye Contact	<b>IF IN EYES:</b> Rinse opened eye for several minutes under running water. Remove contact lenses if present and easy to do so. Then consult doctor.
Skin Contact	<b>IF ON SKIN:</b> Wash skin with water and soap. Citrus based hand wash with pumice or vinegar may assist. Rinse thoroughly. If skin irritation continues, consult a doctor. Take off contaminated clothing and wash before reuse
Inhalation	Supply fresh air.
Note to Physician	No particular measures are known - Treat according to symptoms.

**Section 5. Fire Fighting Measures.**

Extinguishing Media	CO2, extinguishing powder or water fog or fine spray. Fight larger fires with water fog or fine spray or alcohol-resistant foam
Specific Hazards	Formation of toxic gases is possible during heating or in case of fire.
Fire Fighters	Put on breathing apparatus if material is involved in fire.
Hazchem Code	2[Y]E

**Section 6. Accidental Release Measures.**

	Wear protective equipment to prevent skin and eye contamination. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled containers for disposal as per state or local council regulations.
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**Section 7. Handling, Storage and Safe Use.**

Handling	Use with adequate ventilation. Vapour is heavier than air. Use suitable protective equipment. Avoid contact with eyes, skin and clothing. Eating, drinking and smoking in work areas is prohibited.
Storage	Store only in original containers. Store away from food stuffs. Keep container tightly sealed. Store between between 2°C and 40°C.

**Section 8. Exposure Controls.**

Exposure Limits	Material	TWA		STEL		Notices
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
	2,2'-Iminodiethanol	3	13			
Engineering Controls	Use only with adequate ventilation. Keep containers closed.					
Personal Protection	Safety glasses with side shields Organic Vapour respirator in enclosed spaces EVAL. Butyl Rubber, or Nitrile may give longest time to breakthrough. Clothing which covers arms, legs and torso. In case of inadequate ventilation, wear suitable respiratory equipment <b>Advice on personal protection equipment is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation.</b>					
Preparations & use of product	Heating to reduce viscosity in cold weather with a hot air blower or flame is discouraged, due to increased vaporisation which could occur. Instead use the cold weather version.  When mixed with Part A this product contains crystalline silica. No exposure to silica dust is likely with normal use of this product. Silica dust may be released by grinding or machining of the cured product. Use an approved dust respirator when grinding or machining the cured product. Crystalline silica is classified as a Class 1 Human Carcinogen according to IARC (International Agency for Research on Cancer). Repeated exposure to respirable crystalline silica dust may lead to silicosis or other serious delayed lung injury.					

**Section 9. Physical and Chemical properties.**

Appearance	Grey-White Paste
Odour	Slight amine like.
Specific Gravity	0.73
pH	10
Boiling Point and boiling range (°C)	> 200°C
Flash Point (°C)	> 200°C DIN 51758 (Pensky-Martens Closed Cup)
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure (20°C)	< 0.01 kPa
Solubility	Not miscible or difficult to mix.
Viscosity	Thick Paste
% Volatile by Volume	0.0%
Dustiness	Product is a Paste

**Section 10. Stability and Reactivity.**

Chemical Stability	The product is stable.
Incompatible Materials	Strong acids, strong bases, Strong oxidising agents.

**Section 11. Toxicological Information.**

Acute Effects	<b>Mixture</b>
	Ingestion
	LD50 >2000mg/kg <sup>§</sup>
	Eye
	Severe Irritant
	Dermal
	Irritant
	Sensitization
	May cause sensitization by skin contact.
Long term Effects	If skin irritation or rash occurs: Get medical advice/attention. Has caused allergic skin reactions in humans.

§ Acute Toxicity Estimate calculated using the methods set out in the GHS 2013 5<sup>th</sup> Edition Part 3, Health Effects.

**Component Toxicities.**

Name	Oral LD50 mg/kgm	Dermal LD50 mg/kgm	Inhalation LC50/4hr mg/l	Notes
polyamides	3250 (rat)	600(rat)	-	
Modified aliphatic amine	5000 (rat)	-	-	
2-Piperazin-1-ylethanamine	>1470(rat)	866(rabbit)	21.4	
2,2'-Iminodiethanol	1600(rat)	12970(rabbit)	No mort.	

**Section 12. Ecological Information.**

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and Degradability	No data
Bioaccumulative Potential	No data
Mobility in Soil	No data
Other Adverse Effects	No data

**Component Toxicities.**

Name	LDLo50 Fish mg/L	LC50 Crusta mg/L	LC50 Algae mg/L	Bio- degrade- ability	Mobility	Bio- acumulative
Polyamides	420	14.6	2	*	*	Low
2-Piperazin-1-ylethanamine	368	32	494	*	Not	Low
2,2'-Iminodiethanol	*	*	*	*	*	*

\* No data available. # Harmful

**Section 13. Disposal Considerations.**

	Dispose of all empty containers as per State and Council Regulations. Do not burn empty containers or product. Do not bury product or empty containers. Do not dispose of near waterways, vegetation and tree roots. Excess product can be mixed with an equal amount of part A and disposed of as non hazardous solid waste when cured.
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**Section 14. Transport Information.**

	UN. No.	Not allocated
	Proper Shipping Name	Not applicable
	Class	Not classified as a dangerous substance
	Subsidiary Risk	Nil
	Packaging Group	Not applicable
	Hazchem Code	2[Y]E
	EPG	Not applicable
	Segregation	Not applicable
	For road, marine and air transport this product is not classified as dangerous goods within the context of National and International Transport Regulation.	

**Section 15. Regulatory Information.**

Poison Schedule S5 Caution

**Section 16. Other.**

	Date of Preparation.	26 September 2013
	Date of Revision.	14 June 2016
	Reason for Issue	Unify Versions

Preparation of Safety Data Sheets for Hazardous Chemicals. Code of Practice 2011 Workplace Health and Safety Queensland  
 Queensland Work Health and Safety Regulation 2011  
 Workplace Exposure Standards 2011, Safework Australia  
 ADG7 October 2011 Section 2.9.3.3  
 GHS 2013 5<sup>th</sup> Edition Health effects 03e\_part3  
 GHS 2013 5<sup>th</sup> Edition Environmental Hazards 04e\_part4

**Abbreviations**

ADG7	Australian Code for the Transport of Dangerous goods by Road & Rail, 7 <sup>th</sup> Edition	mg	milligram
C.A.S.	Chemical Abstracts Service Number	Mg/m3	Milligram per cubic metre
EC50	Half Maximal Effective Concentration	No mort	No mortality.
EPG	Emergency procedure guide	N.O.S.	Not Otherwise Specified
ErC50	Means EC50 in terms of reduction of growth rate	NOEC	No observable effect concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals	ppm	Parts per million
kg	Kilogram	PVC	Polyvinyl Chloride
L	Litre	Sen	Sensitizer
LC50	Lethal concentration for 50% of the test population	Sk	Sk absorption is significant.
LD50	Lethal dose for 50% of the test population	STEL	Short Term Exposure Limit
LDLo	Least Lethal Dose Observed	TWA	Time Weighted Average
LOEC	Lowest Observable Effective Concentration		