

Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACR8R Issue Date :September 2005 ISSUED by HILTI CS: 1.4.20

Product Name : **HILTI CA 80 EPOXY GROUT, PART A**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HILTI CA 80 EPOXY GROUT, PART A
Company Name HILTI (AUST.) PTY LTD
Address 1G Homebush Bay Drive, Rhodes 2138
Telephone/Fax Number Tel: (02) 8748-1000
 Fax: (02) 8748-1190
Recommended Use General purpose filled epoxy resin.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
 HAZARDOUS SUBSTANCE.
 NON-DANGEROUS GOODS.
 Hazard classification according to the criteria of NOHSC.
 Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Classified as hazardous
 R36/38 Irritating to eyes and skin.
 R68 Possible risk of irreversible effects.
 R43 May cause sensitization by skin contact.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s) S24/25 Avoid contact with skin and eyes.
 S28 After contact with skin, wash immediately with plenty of soap and water.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition, information on ingredients Chemical nature: Formulated bisphenol A/F epoxy resin.

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Bisphenol A, epichlorohydrin polymer	25068-38-6	30-60 %		
	o-Cresyl glycidyl ether	2210-79-9	0-10 %		
	Other ingredients determined not to be hazardous		Balance		

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

Ingestion Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

Eye If contact with the eye(s) occur, wash with running water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities Eye wash station, safety shower and normal washroom facilities.

Advice to Doctor Treat symptomatically or consult a Poisons Information Centre (Phone 131 126).

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water spray, Carbon dioxide (CO2), Foam or Dry powder.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Special Protective Equipment for fire fighters Full protective clothing and self-contained breathing apparatus.

Specific Hazards Classified as a Class C2 (COMBUSTIBLE LIQUID).

Decomposition Temp. > 200°C

Unsuitable Extinguishing Media High volume water jet.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to minimise exposure. Avoid contact with skin, eyes and clothing. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Do not allow product to enter drains. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use in a well ventilated area. Build up of mists or vapours in the atmosphere must be prevented. Provide sufficient air exchange and/or exhaust in work rooms. Avoid breathing in spray or mists or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. When dealing with large quantities, repeated or prolonged skin exposure without protection should be prevented in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Store in a cool, dry well-ventilated area away from heat, sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all State and Federal regulations.

Storage Temperatures Store between 10 and 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC).

Biological Limit Values No biological limit allocated.

Engineering Controls Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Refer to AS1940 - The storage and handling of flammable and

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Respiratory Protection	combustible liquids and AS2430 - Explosive gas atmospheres for further information concerning ventilation requirements. If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist. When this product is handled the use of plastic aprons and rubber boots is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige liquid.
Odour	Mild odour
Decomposition Temperature	> 200°C
Melting Point	Not available
Boiling Point	> 200°C
Solubility in Water	Insoluble @ 20°C
Specific Gravity	1.64 - 1.70 g/cm³ @ 25°C
pH Value	Approx. 8 @ 20°C (1:1 in water)
Vapour Pressure	< 1 Pa @ 20°C
Vapour Density (Air=1)	Not available.
Flash Point	155°C. (Pensky-Martens Closed Cup).
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available
Dynamic Viscosity	22000 - 27000 mPa/s @ 25°C

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Take necessary action to avoid static electricity discharge.
Incompatible Materials	Strong acids, strong bases and strong oxidizing agents.

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Hazardous Decomposition Products	Carbon oxides.
Hazardous Reactions	Product as received will not present a dust explosion hazard. If cured material made using this product is to be machined, or sanded, a dust explosion hazard may be created. All dust generated should be removed as quickly as possible, preferably by the use of a vacuum cleaner.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this product.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin	Irritating to skin resulting in redness and itching. This product may cause sensitisation in some individuals.
Eye	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Repeated or prolonged contact with low molecular weight (liquid) epoxy resins may result in skin sensitisation.
Acute Toxicity - Oral	LD50 (Rat) > 5049 mg/kg.
Eye Irritation	Irritating - rabbit.
Skin Irritation	Irritating - rabbit.
Skin Sensitisation	Causes sensitisation - guinea pig (dermal).

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data available for this product.
Persistence / Degradability	Not available.
Mobility	Not available.
Environ. Protection	Avoid subsoil penetration, prevent product from entering drains. Do not contaminate surface water.
Acute Toxicity - Fish	LC50 (Rainbow trout) - 2.4 mg/L (96 h).
Acute Toxicity - Daphnia	LC50 (Daphnia magna straus 1820) - 3.6 mg/L (24 h).

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to federal, EPA and state regulations.
Container Disposal	Empty containers should either be sent to an approved agent for cleaning and recycling or incineration according to local regulations.

14. TRANSPORT INFORMATION

Transport Information	Not classified as a Dangerous Good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. REGULATORY INFORMATION

Poisons Schedule	S5
Hazard Category	Harmful, Irritant, Dangerous for the environment
Other Information	Notification status: AICS - Yes.

16. OTHER INFORMATION

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Date of preparation	MSDS Reviewed: September 2005.
or last revision of	MSDS Created: May 2003.
MSDS	
Contact Person/Point	For further information call Hilti (Aust) Pty. Ltd. on: (02) 8748 1000 (Business Hours). ...End Of MSDS...

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