

Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACRE4 Issue Date :September 2005 ISSUED by HILTI CS: 1.4.20

Product Name : **HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, PART A**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, 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 Resin component of a rapid setting epoxy adhesive.

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.
 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) S25 Avoid contact with 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.

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 epoxy resin	25086-38-6	30-60 %		
	Butanedioldiglycidyl ether	2425-79-8	10-30 %	Xn, Xi	R20/21, R36/38, R43
	Bisphenol F epoxy resin	55492-52-9	10-30 %		
	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).

Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACRE4	Issue Date :September 2005	ISSUED by HILTI	CS: 1.4.20
--------------------	----------------------------	-----------------	------------

Product Name : **HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, PART A**

Classified as hazardous

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.	> 250°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, sewers or waterways. 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. DO NOT store or use in confined spaces. 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 5 and 35°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

Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACRE4 Issue Date :September 2005 ISSUED by HILTI CS: 1.4.20

Product Name : **HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, PART A**

Classified as hazardous

Respiratory Protection	required. Refer to AS1940 - The storage and handling of flammable and 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	White thixotropic filled liquid.
Odour	Mild odour.
Decomposition Temperature	> 250°C
Melting Point	Not available
Boiling Point	> 200°C
Solubility in Water	Insoluble @ 20°C
Specific Gravity	1.40 - 1.45 g/cc @ 25°C
pH Value	Approx: 7 @ 1 : 1 mixture
Vapour Pressure	< 1 Pa (estimates) @ 20°C
Vapour Density (Air=1)	Not available.
Viscosity	75000 - 100000 mPa.s @ 25°C
Flash Point	> 100°C. (Closed Cup).
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Extremes of temperature and incompatibles.
Incompatible Materials	Strong acids, strong bases and strong oxidizing agents.

Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACRE4 Issue Date :September 2005 ISSUED by HILTI CS: 1.4.20

Product Name : **HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, PART A**

Classified as hazardous

Hazardous Decomposition Products
Hazardous Reactions Oxides of carbon.
 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.
Hazardous Polymerization Will not occur.

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 may result in dermatitis or asthma like symptoms. A single significant skin exposure may result in sensitisation.
Acute Toxicity - Oral LD50 ORAL (rat): > 5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity This material may present a low environmental risk.
Persistence / Degradability This product is not expected to be readily biodegradable.
Mobility Product is of high viscosity and insoluble in water.
Environ. Protection Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA and state 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.

15. REGULATORY INFORMATION

Poisons Schedule S5
Hazard Category Irritant, Dangerous for the environment
AICS (Australia) Components listed.

16. OTHER INFORMATION

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

Material Safety Data Sheet

CS: 1.4.20

Page: 5 of 5

Infosafe No™ ACRE4	Issue Date :September 2005	ISSUED by HILTI	CS: 1.4.20
--------------------	----------------------------	-----------------	------------

Product Name : **HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, PART A**

Classified as hazardous

© Copyright ACOHS Pty Ltd
Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed on this site is the intellectual property of Acchs Pty Ltd.
Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed on this site is the intellectual property of Acchs Pty Ltd.
The compilation of MSDS's displayed on this site is the intellectual property of Acchs Pty Ltd.
Copying of any MSDS displayed on this site is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed on this site cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acchs Pty Ltd.