

# Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACRE3 Issue Date :September 2005 ISSUED by HILTI CS: 1.4.20

Product Name : **HILTI CA 125 GENERAL PURPOSE ADHESIVE PASTE, PART B**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** HILTI CA 125 GENERAL PURPOSE ADHESIVE PASTE, PART B  
**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** Curing agent for 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  
 R38 Irritating to skin.  
 R41 Risk of serious damage to eyes.  
 R43 May cause sensitization by skin contact.

**Safety Phrase(s)** 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.  
 S37/39 Wear suitable gloves and eye/face protection.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Composition, information on ingredients** Chemical Nature: Formulated polyaminoamide.

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Triethylenetetramine.	112-24-3	0-9.99 %		
	Diethylenetriamine	111-40-0	0-9.99 %		
	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).

## 5. FIRE FIGHTING MEASURES

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

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

**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. 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). However, exposure standards for ingredients are stated below:  
Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

Substance	STEL		TWA	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Diethylenetriamine	-	-	1	4.2

**Biological Limit Values** No biological limit allocated.

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<b>Other Exposure Information</b>	As published by the National Occupational Health and Safety Commission (NOHSC): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.
<b>Engineering Controls</b>	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 combustible liquids and AS2430 - Explosive gas atmospheres for further information concerning ventilation requirements.
<b>Respiratory Protection</b>	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.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	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.
<b>Body Protection</b>	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

<b>Appearance</b>	Black thixotropic filled liquid.
<b>Odour</b>	Mild ammoniacal odour.
<b>Decomposition Temperature</b>	> 200°C
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	> 200°C
<b>Solubility in Water</b>	Partly Soluble @ 20°C
<b>Specific Gravity</b>	1.45 @ 25°C
<b>pH Value</b>	Not available.
<b>Vapour Pressure</b>	< 1 Pa (approx) @ 20°C
<b>Vapour Density (Air=1)</b>	Not available.
<b>Viscosity</b>	180000 - 220000 mPa.s @ 25°C
<b>Flash Point</b>	> 100°C. (Closed Cup).
<b>Auto-Ignition Temperature</b>	Not available

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**Flammable Limits - Lower** Not available  
**Flammable Limits - Upper** Not available

**10. STABILITY AND REACTIVITY**

**Chemical Stability** Stable under normal use conditions.  
**Conditions to Avoid** Take necessary measures to avoid static electricity discharges.  
**Incompatible Materials** Strong acids, strong bases and strong oxidising agents.  
**Hazardous Decomposition Products** Oxides of carbon.  
**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.  
**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. Inhalation may cause sensitisation in some individuals.  
**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** Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.  
**Chronic Effects** Repeated or prolonged contact may result in skin sensitisation.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** No ecological data available for this product.  
**Persistence / Degradability** Not expected to be fully biodegradable.  
**Mobility** Not available.  
**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  
**AICS (Australia)** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

**16. OTHER INFORMATION**

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

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