

Material Safety Data Sheet

CS: 1.4.20

Infosafe No™ ACRE5 Issue Date :September 2005 ISSUED by HILTI CS: 1.4.20

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

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HILTI CA 273 MEDIUM SETTING 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 adhesive.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
 HAZARDOUS SUBSTANCE.
 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
 R22 Harmful if swallowed.
 R34 Causes burns.

Safety Phrase(s) R43 May cause sensitization by skin contact.
 S2 Keep out of reach of children.
 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.
 S45 In case of accident or if you feel unwell seek medical advice immediately

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition, information on ingredients Chemical nature: Formulated polyaminoamide.

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Trimethyhexamethylenediamine	25620-58-0	10-30 %		
	Diethylenetriamine	111-40-0	0-10 %	Xn, C	R21/22, R34, R43
	Isophoronediamine	2855-13-2	0-10 %	Xn, C	R21/22, R34, R43
	Tris(dimethylaminomethyl)phenol	90-72-2	0-10 %	Xn, Xi	R22, R36/38
	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 Never give anything by mouth if victim is semi-conscious or unconscious. Immediately wash out mouth with water and then give plenty of water to drink. SEEK IMMEDIATE MEDICAL ATTENTION.

Skin Wash affected area thoroughly with soap and water. 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.

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

5. FIRE FIGHTING MEASURES

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

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 C1 (COMBUSTIBLE LIQUID).

Hazchem Code 3X

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. 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. 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 10 and 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	

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	Diethylenetriamine	4.2	1
Biological Limit Values	No biological limit allocated.		
Other Exposure Information	<p>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 above:</p> <p>As published by the National Occupational Health and Safety Commission (NOHSC):</p> <p>TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.</p> <p>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.</p> <p>According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers.</p>		
Engineering Controls	<p>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.</p>		
Respiratory Protection	<p>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.</p>		
Eye Protection	<p>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.</p>		
Hand Protection	<p>Wear gloves of impervious material i.e long impervious gloves, such as rubber, neoprene, PVC. 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.</p>		
Body Protection	<p>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.</p>		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black thixotropic filled liquid.
Odour	Mild ammoniacal odour.
Decomposition Temperature	> 200°C
Melting Point	Not available.
Boiling Point	> 200°C
Solubility in Water	Partially soluble @ 20°C
Specific Gravity	1.45 - 1.50 g/cm³ @ 25°C
pH Value	Not available
Vapour Pressure	Approx. < 20 Pa @ 20°C.

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Viscosity	200,000 - 300,000 mPa.s @ 25°C.
Density	Not available.
Flash Point	> 140°C. (Pensky-Martens 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 conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight. Take necessary action to avoid static electricity discharge.
Incompatible Materials	Strong acids, strong bases and strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides and nitrogen 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 vapours or mists may cause severe irritation to the respiratory system.
Ingestion	Harmful if swallowed. Ingestion may cause nausea, vomiting, diarrhea, abdominal pain and chemical burns to the mouth, throat and stomach.
Skin	May cause redness, itching and irritation. This product may cause sensitisation in some individuals.
Eye	Eye contact will cause stinging, blurring, tearing and possible permanent corneal damage.
Chronic Effects	This product is a skin sensitiser. Repeated or prolonged skin contact may result in allergic contact dermatitis.
Acute Toxicity - Oral	LD50 (Oral, rat): > 1480 mg/kg.
Eye Irritation	Corrosive - rabbit.
Skin Irritation	Corrosive - rabbit (dermal).
Skin Sensitisation	Causes sensitisation - guinea pig (dermal).

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data available for this product.
Persistence / Degradability	Expected to be fully biodegradable.
Mobility	Not available.
Environ. Protection	Avoid subsoil penetration, prevent product from entering drains. Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to federal, EPA and state regulations.
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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 This material is classified as a Class 8 (Corrosive) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 4.3, Dangerous When Wet Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
- Class 7, Radioactive Substance

and are incompatible with food and food packaging in any quantity.

U.N. Number 2735

Proper Shipping Name AMINES, LIQUID, CORROSIVE, N.O.S. - (CONTAINS TRIMETHYLHEXAMETHYLENDIAMINE)

DG Class 8

Hazchem Code 3X

Packaging Method 3.8.8

Packing Group III

EPG Number 8A1

IERG Number 36

15. REGULATORY INFORMATION

Poisons Schedule S5

Hazard Category Harmful, Corrosive

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).
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