



Material Safety Data Sheet

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Infosafe No. ACRE4 Issue Date : May 2003 ISSUED by HILTI

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

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name HILTI CA 273 MEDIUM SETTING ADHESIVE PASTE, PART A
Product Use General purpose filled epoxy resin.
Company Name HILTI(AUST.) PTY LTD
Address 23 Egerton Street, Silverwater 2128
Telephone Number/Fax Tel: (02) 8748-1000 Fax: (02) 8748-1190

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Other ingredients determined not to be hazardous		Balance
	Bisphenol F-epoxy resin	9003-36-5	>= 10 - < 30.0%
	Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <700)	25068-38-6	>= 30 - < 60%
	Butanedioldiglycidyl ether	2425-79-8	>= 10 - < 30.0%

Other Information Chemical nature: Formulated bisphenol A/F epoxy resin.

3. HAZARDS IDENTIFICATION

Irritating to eyes and skin.
May cause sensitisation by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Contact a Poisons Information Centre (Phone 131 126) or a doctor at once. If a person vomits when lying on his back, place him in the recovery position. Give oxygen or artificial respiration if needed.

Skin Wash off with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.

Eye Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

First Aid Facilities Eye wash station. Showering facility.

Advice to Doctor No specific antidote. Treat symptomatically.

Other Information Poisons Information Centres (Phone 131 126) can provide further advice.

5. FIRE FIGHTING MEASURES

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

Specific Hazards Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.

Hazardous Combustion Products Burning produces obnoxious and toxic fumes including oxides of carbon.



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Decomposition Temp. > 200°C

Unsuitable High volume water jet.

Extinguishing Media

Protective Equipment Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Soak up with an inert, non-combustible absorbent material and dispose of as hazardous waste.

Personal Precautions Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.
Wear suitable protective clothing.
Do not breathe vapours/dust.

Environmental Precautions Prevent product from entering drains.
Do not contaminate surface water.
Avoid subsoil penetration.

7. HANDLING AND STORAGE

Handling Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Handle and open container with care.

Storage Store in a cool, dry, well ventilated area away from sources of ignition. This product should be stored away from food, drink, animal feeding stuffs and incompatible materials. Keep container tightly closed. For information on the design of the store-room reference should be made to Australian Standard AS1940, The storage and handling of flammable and combustible liquids. Reference should also be made to any relevant Commonwealth, State or Territory regulations.

Storage Temperatures Keep at temperatures between 10 and 30°C.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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

Respiratory Protection Use with adequate ventilation. If risk of inhalation exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. 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/New Zealand 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 faceshield should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection Impervious rubber or plastic gloves (as per AS 2161, or as recommended by supplier).

Body Protection Protective suit.
Safety shoes.

Eng. Controls Ensure sufficient ventilation to prevent exposure to vapours, mists and fumes. Ensure airflow where this product is being used is directed away from operators. If cured material made from this product is to be cut or sanded, ensure that dust is kept below the NOHSC Exposure Standard for inspirable dusts (10 mg/m³) or the ACGIH Exposure Standard for respirable dusts (3 mg/m³).

Hygiene Measures Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White paste with a very faint odour.



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Decomposition Temperature	> 200°C
Melting Point	Not available
Boiling Point	> 200°C
Solubility in Water	Insoluble @ 20°C
pH Value	Approx. 7 @ 20°C (1:1 in water)
Vapour Pressure	< 0.1 Pa @ 20°C
Density	1.40 - 1.50 g/cm ³ @ 25°C
Flash Point	172°C. Method: DIN 51758 (Pensky-Martens Closed Cup).
Flammable Limits LEL	Not available
Flammable Limits UEL	Not available
Dynamic Viscosity	12000 - 16000 mPa/s @ 25°C
Other Information	Miscibility with water: immiscible.

10. STABILITY AND REACTIVITY

Materials to Avoid	Strong acids and strong bases. Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides. Burning produces obnoxious and toxic fumes. Product will not decompose explosively.
Hazardous Reaction	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.
Conditions to Avoid	Note: Take necessary action to avoid static electricity discharge.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	LD50 (Oral, rat) > 5000 mg/kg.
Inhalation	Where product is used in poorly ventilated area, and/or in confined spaces and/or at elevated temperatures, vapours may be irritating to the respiratory system.
Ingestion	No adverse health effects expected, however large amounts may cause nausea and vomiting.
Skin	Skin contact will cause irritation.
Eye	Eye contact will cause irritation.
Chronic Effects	Repeated or prolonged contact with low molecular weight (liquid) epoxy resins may result in skin sensitisation.
Eye Irritation	Irritating - rabbit.
Skin Irritation	Irritating - rabbit.
Skin Sensitisation	Causes sensitisation - guinea pig (dermal).

12. ECOLOGICAL INFORMATION



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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

Dispose of according to relevant local, state and federal government regulations.

Product Disposal Spill/waste material should be disposed of by incineration by an approved agent according to local 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

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

U.N. Number None Allocated

Proper Shipping Name None Allocated

DG Class None Allocated

Hazchem Code None Allocated

Packing Group None Allocated

15. REGULATORY INFORMATION

Risk Phrase 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 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.

Poisons Schedule S5

Hazard Category Irritant, Dangerous for the environment

Other Information Notification status: AICS - Yes.

16. OTHER INFORMATION

Contact Person/Point For further information call Hilti (Aust) Pty. Ltd. on: (02) 8748 1000 (Business Hours).
...End Of MSDS...