

Material Safety Data Sheet

CS: 1.4.22

Infosafe No™ ACRDS Issue Date :May 2008 ISSUED by HILTI CS: 1.4.22

Product Name : **HILTI HIT - RE 500**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HILTI HIT - RE 500
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 Not available.

2. HAZARDS IDENTIFICATION

Hazard Classification 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) R20/22 Harmful by inhalation and if swallowed.
 R34 Causes burns.
 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) S1/2 Keep locked up and 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
 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 Adhesive mortar, packaged in a 3330-mL, two-component foil pack
 Adhesive mortar, packaged in a 1100-mL two-component plastic cartridge.

Component A: bisphenol A/F base epoxy resin with inorganic filler:

Designation	CAS No.	Proportion
Bisphenol-A-epoxy resin	25068-38-6	30-60%
Bisphenol-F-epoxy resin	28064-14-4	10-30%
Hexandiol glycidylether	16096-31-4	<15%
Alkylglycidylether	30499-70-8	<10%
Other ingredients determined not to be hazardous		Balance

Component B: aliphatic polyamine with inorganic filler:

Designation	CAS No.	Proportion
m-Xylyene diamine	1477-55-0	30-60%
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. Seek medical attention.

Ingestion Do NOT induce vomiting. Wash out mouth with water. Seek IMMEDIATE medical attention.

Skin Remove contaminated clothing. Wash skin with soap and water. Seek medical advice.

Eye If contact with the eye(s) occurs, wash with copious amounts of water for at least 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical advice.

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

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 131 126).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, dry chemical, water spray, foam.

Hazards from Combustion Under fire conditions this product may emit toxic and/or irritating fumes including oxides of carbon and nitrogen.

Products Specific Methods Contaminated extinguishing water and other remains from fire must be disposed of in accordance with government regulations.

Specific Hazards Classified as a Class C1 (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.

Hazchem Code 2X

Precautions in connection with Fire Unsuitable Extinguishing Media Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water in a jet.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Remove ignition sources. Ensure adequate ventilation or wear self-contained breathing apparatus. Wear full protective clothing and avoid contact with skin and eyes. Take up by mechanical means. Remove remainder with solvent or inert, non-combustible absorbent such as vermiculite, sand or dirt. Dispose of according to relevant local, state and federal government regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with skin, eyes and clothing. Observe expiry date on connection of foilpack or label on cartridge.

Conditions for Safe Storage Store in a well ventilated area away from sources of heat and ignition. Keep away from direct sunlight. Store in original packing in a cool and dark place. Observe the rules of passive fire prevention. This product should be stored away from foodstuffs, acids and organic peroxides. 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 5°C - 25°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards The following National Occupational Health And Safety Commission (NOHSC) exposure limit applies:

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
m-Xylyene diamine	-	0.1	-	-

Other Exposure Information 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:

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.

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Engineering Controls	According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. Ensure sufficient ventilation to maintain airborne concentrations below exposure limits and prevent exposure to vapours, mists and fumes. Local exhaust ventilation may be required.
Respiratory Protection	Use in a well-ventilated area. 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/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 or goggles should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material such as nitrile or butyl rubber gloves. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	2-component-foilpack with paste or 2-component cartridge.
Odour	Amine-like.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Component A: insoluble. Component B: insoluble.
pH Value	Component B: 11 (suspension with water 1:1).
Vapour Pressure	Component A: < 0.1 mbar @ 20°C. Component B: < 0.1 mbar @ 25°C.
Viscosity	Viscosity: approx. 50 Pa.s @ 23°C (DIN 53015). Efflux time 4 mm nozzle: above 20s @ 23°C (DIN 53 211).
Colour	Component A: grey. Component B: red.
Density	1.5 g/cm³ @ 20°C
Flash Point	Component A and B: > 100°C (DIN 52 213).
Auto-Ignition Temperature	This product is not self-igniting.
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Do not overheat.
Incompatible Materials	Acids and organic peroxides.
Hazardous Polymerization	Will not occur.

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11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicology data available for this product.
Inhalation	Harmful by inhalation. Inhalation of mists or vapours will result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.
Ingestion	Harmful if swallowed. Ingestion may cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.
Skin	Skin contact will cause redness, itchiness, irritation and chemical burns with resultant tissue destruction. Skin contact may cause sensitisation in some individuals.
Eye	Eye contact will cause stinging, blurring, tearing and possible permanent corneal damage.
Chronic Effects	Unknown.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence / Degradability	Not available.
Mobility	Not available.
Bioaccumulative Potential	Moderate bioaccumulation potential.
Environ. Protection	Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of according to relevant local, state and federal government regulations. Full or partly emptied containers, whose contents have become unusable, e.g. expiry date exceeded or container damaged, must be collected separately and disposed of as special waste, while observing the respective authorities' regulations.
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14. TRANSPORT INFORMATION

Transport Information	This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following: - Class 1, Explosives, - Class 4.3, Dangerous When Wet Substances, - Class 5.1, Oxidising Agents & Class 5.2 - Organic Peroxides, - Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids), - Class 7, Radioactive Substances, - Class 8, Corrosive Substances (concentrated strong acid is to be segregated from strong alkali), and are incompatible with food and food packaging in any quantity.
U.N. Number	3259
Proper Shipping Name	AMINES, SOLID, CORROSIVE, N.O.S. - (Contains m-Xylylene diamine)
DG Class	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	II
IERG Number	36

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15. REGULATORY INFORMATION

Poisons Schedule S5**Hazard Category** Harmful, Corrosive, Dangerous for the environment

16. OTHER INFORMATION

Date of preparation MSDS Reviewed: May 2008**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).
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