

Material Safety Data Sheet

CS: 1.4.22

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

Product Name : **HILTI CA 359 CONSTRUCTION ADHESIVE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HILTI CA 359 CONSTRUCTION ADHESIVE
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 A solvent based, general purpose, gunnable construction adhesive.

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) R11 Highly flammable.
 R45(2) May cause cancer.
 R65 Harmful: may cause lung damage if swallowed.

Safety Phrase(s) S16 Keep away from sources of ignition - No smoking.
 S29 Do not empty into drains.
 S33 Take precautionary measures against static discharges.
 S36 Wear suitable protective clothing.
 S45 In case of accident or if you feel unwell seek medical advice immediately
 S53 Avoid exposure - obtain special instructions before use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Proprietary Petroleum Hydrocarbon Mixture containing Hexane	64742-49-0	10-30 %
	Hydrocarbon Solvent Containing Hexane.	N/A	10-30 %
	Non-hazardous trade secret components		To 100 %.

4. FIRST AID MEASURES

Inhalation Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

Ingestion DO NOT INDUCE VOMITING. Wash out mouth with water. Where vomiting occurs naturally have victim place head below hip level in order to reduce risk of aspiration. Seek immediate 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) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms develop seek medical attention.

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

Advice to Doctor Treat symptomatically.

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

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New Zealand 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Foam, dry chemical, carbon dioxide.

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

Products

Special Protective Equipment for fire fighters Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion.

Hazchem Code 3(Y)

Other Information Water spray may be used to cool down heat-exposed material. If safe to do so, remove containers from path of fire. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Exclude sources of ignition and ventilate the area. Clear area of all unprotected personnel. Slippery when spilled. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye exposure and inhalation of vapours. Prevent run off into drains and waterways. If necessary place non-combustible, inert absorbent material onto spillage. Use clean, non-sparking tools to collect the material and place into suitable labelled containers or drums for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Maintain a high level of personal hygiene when using the product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, and out of direct sunlight. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. 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 applicable state and federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No value assigned for this specific material by the Australian National Occupational Health and Safety Commission (NOHSC). However, the available exposure limits on the ingredients are as follows:

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Hexane	20	72	-	-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

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	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:2004: Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. 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, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear impervious gloves conforming to AS/NZS 2161: Occupational protective gloves. Laminated film and nitrile gloves offer good protection for prolonged contact with the material. Consult glove suppliers to determine other appropriate glove types and test gloves for practical suitability before use.
Body Protection	Suitable work wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.
Hygiene Measures	A high standard of personal hygiene should be maintained i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale tan coloured gunnable paste with a solvent odour.
Melting Point	Not available
Boiling Point	>47°C Initial (Hydrocarbon solvent)
Solubility in Water	Immiscible
Specific Gravity	1.16 g/cm3
Vapour Pressure	34.5 kPa @ 15 °(Hydrocarbon solvent)
Flash Point	< - 30°C (Hydrocarbon solvent)
Flammability	Highly flammable.
Flammable Limits - Lower	1.0 % (Hydrocarbon solvent)
Flammable Limits - Upper	7.5 % (Hydrocarbon solvent)

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Hazardous Reactions	Incompatible with strong oxidising agents, acids and sources of ignition.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

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Product Name : **HILTI CA 359 CONSTRUCTION ADHESIVE**

Toxicology Information	No toxicology data available for this product.
Inhalation	Inhalation of product vapours may cause drowsiness, dizziness and irritation of the nose, throat and respiratory system.
Ingestion	Ingestion may cause nausea, vomiting, abdominal pain and CNS depression with symptoms including dizziness, drowsiness, confusion and possible unconsciousness. Solvent aspiration into the lungs may occur during ingestion or vomiting, resulting in severe lung injury.
Skin	May be irritating to skin. Symptoms may include redness and itchiness.
Eye	Repeated or prolonged skin contact may lead to dermatitis. May be an eye irritant.
Chronic Effects	Prolonged or repeated skin contact may cause defatting leading to drying and cracking of skin, and dermatitis. Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches. Chronic exposure may have adverse effects on the central nervous system, liver and kidneys.
Carcinogenicity	This product is classified as a Category 2 carcinogenic substance in accordance with Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)] 3rd Edition.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available for this specific product.
Persistence / Degradability	Not available.
Mobility	Not available.
Environ. Protection	Prevent from entering drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of according to relevant EPA, local, state and federal government regulations.
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14. TRANSPORT INFORMATION

Transport Information	This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 - Flammable Liquids are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gases - Class 4.2, Spontaneously Combustible Substances - Class 5.1, Oxidising Agents and Class 5.2, Organic Peroxides - Class 6, Toxic Substances (where the flammable liquid is nitromethane) - Class 7, Radioactive Substances.
U.N. Number	1133
Proper Shipping Name	ADHESIVES
DG Class	3
Hazchem Code	3(Y)
Packaging Method	5.9.3#
Packing Group	III
EPG Number	3A1
IERG Number	14

15. REGULATORY INFORMATION

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Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Poisons Schedule	Classified as a S5 Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). S5
Hazard Category	Toxic, Highly Flammable

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Review: May 2008 Supersedes: May 2003
Contact Person/Point	For further information call Hilti (Aust) Pty. Ltd. on: (02) 8748 1000 (Business Hours).
Technical Data	Refer Product Information Bulletin. ...End Of MSDS...

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