

Material Safety Data Sheet

CS: 1.4.22

Infosafe No™ ACRE0 Issue Date :May 2008 ISSUED by HILTI CS: 1.4.22

Product Name : **CP 620 EXPANDING FIRE SEAL**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name CP 620 EXPANDING FIRE SEAL
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 Dispenser applied fire resistant sealant for cable tray and pipe penetrations.

2. HAZARDS IDENTIFICATION

Hazard Classification 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) R20 Harmful by inhalation.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43 May cause sensitisation by inhalation and skin contact

Safety Phrase(s) S2 Keep out of reach of children.
 S23 Do not breathe gas/fumes/vapour/spray
 S24/25 Avoid contact with skin and eyes.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
 S51 Use only in well ventilated areas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Diphenylmethane diisocyanate isomers and homologues	9016-87-9	30-60 %
	Tris(1-chloro-2-propyl)phosphate	13674-84-5	0-10 %
	Other ingredients determined not to be hazardous		Balance
	N, N, N', N'-Tetramethyl-2, 2' oxy bis(ethylamine)	3033-62-3	< 0.5%

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. Seek medical attention.

Ingestion If swallowed, do NOT induce vomiting. Wash out mouth with water. Seek medical attention.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Ensure contaminated clothing is washed before re-use or discard. 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.

First Aid Facilities Eye wash and normal washroom facilities.

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Advice to Doctor Treat symptomatically.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use dry chemical powder, carbon dioxide or foam.
 Do NOT use water jets. Cool fire exposed containers with water spray.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide (CO), hydrogen cyanide (HCN) and hydrogen chloride (HCL).

Specific Hazards Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940.

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

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Remove all sources of ignition. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Do not dilute material but contain. Place inert, non-combustible absorbent material onto the spillage. Collect the material using clean non-sparking tools and place into a suitable labelled container for subsequent disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Handling and Storage This product should be stored and used in a well ventilated area away from naked flames, sparks and other sources of ignition.

Precautions for Safe Handling Repeated or prolonged contact with this material should be avoided 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 or going to the toilet. Build-up of mists in the working atmosphere must be prevented. Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place.

Conditions for Safe Storage Store in a cool, dry, well ventilated area away from sources of ignition. Keep containers securely closed and sealed. Store at 5 - 25°C. This product should be stored away from foodstuffs and strong oxidising agents. 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 Regulations Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purposes of storage and handling, in accordance with the requirements of AS1940.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure limits have been established for this material by the National Occupational Health And Safety Commission (NOHSC), however for the constituent;

SUBSTANCE	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Isocyanates, all (as-NCO)	-	0.02	-	0.07

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 limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system, drawing vapours/mists away from workers' breathing zone, is required.
Respiratory Protection	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 dependent 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.
Eye Protection	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.
Hand Protection	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.
Body Protection	Suitable work wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red fluid with a characteristic odour.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Not miscible or difficult to mix.
Specific Gravity	Not available
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Density	Component A: 1.2-1.4 g/cm ³ . Component B: 1.2-1.4 g/cm ³ .
Flash Point	> 150°C.
Flammability	Fire resistant paste
Auto-Ignition Temperature	400°C
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available
Explosion Properties	Product is not explosive.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials	Strong oxidizing agents and water. Reacts with alcohols, amines, aqueous acids and alkalis. Reaction with water leads to the production of CO ₂ . This in turn

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Hazardous Decomposition Products	may lead to a build-up of pressure inside containers causing containers to burst. None known.
Hazardous Reactions	May react with strong oxidising agents.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicology data available for this product.
Inhalation	Harmful by inhalation. Inhalation may cause sensitisation in some individuals and may cause subsequent development of an asthmatic reaction. Irritating to the mucous membranes of the respiratory tract. Inhalation of high vapour concentrations may give rise to pulmonary oedema; at low concentrations it may cause irritation to the respiratory tract with subsequent bronchitis.
Ingestion	Ingestion may irritate the gastric tract causing nausea and vomiting.
Skin	Skin contact will cause irritation. May cause sensitization in some individuals.
Eye	Eye contact will cause irritation.
Chronic Effects	Repeated and prolonged inhalation even at very low concentrations may give rise to sensitisation symptomised by breathing difficulties. Repeated exposure may cause chronic irritation of the skin, eyes and nose. Prolonged or repeated skin contact may cause defatting leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence / Degradability	Not available
Mobility	Not available
Environ. Protection	Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

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

Transport Information	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. REGULATORY INFORMATION

Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as an S6 Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule	S6
Hazard Category	Harmful, Irritant

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Review: May 2008 Supersedes: October 2004
Contact Person/Point	For further information call Hilti (Aust) Pty. Ltd. on: (02) 8748 1000 (Business Hours).

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