



Material Safety Data Sheet

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Infosafe No. ACRE0 Issue Date : November 2004 ISSUED by HILTI

Product Name : CP 620 EXPANDING FIRE SEAL

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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

Ingredients	Name	CAS	Proportion
	Diphenylmethane diisocyanate isomers and homologues	9016-87-9	25-50 %
	Tris(1-chloro-2-propyl)phosphate	13674-84-5	2.5-5 %
	Other ingredients determined not to be hazardous		Balance
	N, N, N', N'-Tetramethyl-2,2' oxy bis(ethylamine)	3033-62-3	< 0.5%

3. HAZARDS IDENTIFICATION

Classified as Hazardous according to the criteria of NOHSC.

Not classified as Dangerous Goods according to the ADG Code.

Risk phrases:

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 phrases:

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.

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

Skin Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. 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. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

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



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

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	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.
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.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	No exposure limits have been established for this material by the National Occupational Health And Safety Commission (NOHSC), however for the constituent;									
	<table border="0" style="margin-left: 40px;"> <tr> <td style="text-align: left;">SUBSTANCE</td> <td style="text-align: center;">TWA</td> <td style="text-align: center;">STEL</td> </tr> <tr> <td></td> <td style="text-align: center;">ppm</td> <td style="text-align: center;">mg/m³</td> </tr> <tr> <td>Isocyanates, all (as-NCO) -</td> <td style="text-align: center;">0.02</td> <td style="text-align: center;">0.07</td> </tr> </table>	SUBSTANCE	TWA	STEL		ppm	mg/m ³	Isocyanates, all (as-NCO) -	0.02	0.07
SUBSTANCE	TWA	STEL								
	ppm	mg/m ³								
Isocyanates, all (as-NCO) -	0.02	0.07								
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.									

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Body Protection	Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.
Eng. Controls	Use with good general ventilation. If mists or vapours are produced local exhaust ventilation should be used.

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 (H₂O=1)	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	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.
Ignition Temperature	400°C
Flammable Limits LEL	Not available
Flammable Limits UEL	Not available
Explosion Properties	Product is not explosive.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous Polymerization	Will not occur.
Materials to Avoid	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 may lead to a build-up of pressure inside containers causing containers to burst.
Hazardous Decomposition Products	None known.
Hazardous Reaction	May react with strong oxidising agents.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.

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.



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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

Environ. Protection Prevent this material entering waterways, drains and sewers.

Mobility No data is available for this material.

Persistence / Degradability No data is available for this material.

Ecotoxicity No data is available for this material.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

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

ADG U.N. Number None Allocated

ADG Proper Shipping Name None Allocated

ADG DG Class None Allocated

ADG Hazchem Code None Allocated

ADG Packing Group None Allocated

15. REGULATORY INFORMATION

Risk Phrase 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 S2 Keep out of reach of children.
S23 Do not breathe gas/fumes/vapour/spray.
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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.

Poisons Schedule S6

Hazard Category Harmful, Irritant

16. OTHER INFORMATION

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

SDS History MSDS Review: October 2004
Supersedes: August 2003
...End Of MSDS...