

MATERIAL SAFETY DATA SHEET POLYURETHANE CONFORMAL COATING

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME POLYURETHANE CONFORMAL COATING
PRODUCT NO. PUC-b
EPUC05L
ZE
APPLICATION Conformal coating for appliance protection
SUPPLIER H K WENTWORTH PTY
LIMITED
P.O. BOX 339
BROOKVALE, NSW 2100
AUSTRALIA
TEL: 02 9938 1566
FAX: 02 9938 1467
GENERAL MANAGER
EMERGENCY TELEPHONE Tel: 029938 1566 between 8.30am and 5.00pm EST
PROPER SHIPPING NAME FLAMMABLE LIQUID, N.O.S. (XYLENE, WHITE SPIRIT)

2 HAZARDS IDENTIFICATION

RISK PHRASES

R10 Flammable.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S24 Avoid contact with skin.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.
S57 Use appropriate containment to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

The above phrases are the risks associated with the product

ENVIRONMENT

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Dispose of waste and residues in accordance with local authority requirements. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

DG CLASS

Class 3: Flammable liquids.

PACKING GROUP III
UN NO. 1993
HAZCHEM CODE •3YE

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
HYDROCARBON DISTILLATE	265-185-4	64742-82-1	30-60%	Xn;R65. N;R51/53. R10,R66.
WHITE SPIRIT	265-151-9	64742-49-0	10-30%	Xn;R65. Xi;R38. N;R51/53. R67,R10.

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XYLENE	215-535-7	1330-20-7	1-5%	R10 Xn;R20/21 Xi;R38
A MIXTURE OF: BUTAN-2-ONE OXIME SYN-O,O'-DI(BUTAN-2-ONE OXIME)DIETHOXYSILANE	202-496-6	96-29-7	1-5%	T;R48/22 R43 R52/53
DEAROMATISED KEROSENE	265-149-8	64742-47-8	1-5%	Xn;R65.

The Full Text for all R-Phrases is Displayed in Section 16

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels Ingredients are registered on AICS

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Rinse mouth thoroughly. Get medical attention.

SKIN CONTACT

Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Alcohol resistant foam. Powder. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

HAZCHEM CODE •3YE

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
XYLENE	ES-TWA	80 ppm	350 mg/m3	150 ppm	655 mg/m3	

PROTECTIVE EQUIPMENT

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ENGINEERING MEASURES

Provide sufficient ventilation during operations which cause vapour formation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use respiratory equipment with combination filter, type A2/P3.

HAND PROTECTION

Protective gloves must be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Nitrile gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Brown
ODOUR	Characteristic
SOLUBILITY	Immiscible with water
BOILING POINT (°C)	152 - 198 (305.6 - 372.2F)
RELATIVE DENSITY	0.920 @ 20 °C (68F)
FLASH POINT (°C)	38 (100.4F) CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C)	230 (446F)
FLAMMABILITY LIMIT - LOWER(%)	0.90
FLAMMABILITY LIMIT - UPPER(%)	8.0

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapours may cause headache, fatigue, dizziness and nausea. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

INGESTION

Harmful: may cause lung damage if swallowed. May cause stomach pain or vomiting.

SKIN CONTACT

May cause sensitisation by skin contact. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

Irritating to eyes.

OTHER HEALTH EFFECTS

Suspect Cancer Hazard.

Name	XYLENE
Toxic Dose 1 - LD 50	4300 mg/kg (oral rat)
Toxic Dose 2 - LD 50	2000 mg/kg (oral-rbt)

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Toxic Conc. - LC 50	22.1 mg/l/4h (inh-rat)
Name	HYDROCARBON DISTILLATE
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>3000 mg/kg (oral-rbt)
Toxic Conc. - LC 50	>11.6 mg/l/4h (inh-rat)
Name	WHITE SPIRIT
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Name	XYLENE
LC 50, 96 Hrs, Fish mg/l	2.6-8.4
EC 50, 48 Hrs, Daphnia, mg/l	1.0-4.7
Name	WHITE SPIRIT

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (XYLENE, WHITE SPIRIT)
ADG CLASS	Class 3: Flammable liquid
UN NO.	1993
ADG CLASS NO.	3
DG CLASS	Class 3: Flammable liquids.
PACKING GROUP	III
TUNNEL RESTRICTION CODE	(D/E)
ADG LABEL NO.	3
HAZCHEM CODE	•3YE
UN NO. SEA	1993
IMDG CLASS	3
IMDG PACK GR.	III
EMS	F-E, S-E
UN NO. AIR	1993
AIR CLASS	3
AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Harmful



Dangerous for the environment

CONTAINS

HYDROCARBON DISTILLATE
WHITE SPIRIT
A MIXTURE OF: BUTAN-2-ONE OXIME SYN-O,O'-DI(BUTAN-2-ONE OXIME)DIETHOXYSILANE

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RISK PHRASES

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SAFETY PHRASES

S24	Avoid contact with skin.
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POISONS SCHEDULE NUMBER NONE

NATIONAL REGULATIONS AND REFERENCES

National Model Regulations for the Control of Workplace Hazardous Substances.
National Code of Practice for the Control of Workplace Hazardous Substances.
National Code of Practice for the Labelling of Workplace Substances.
National Code of Practice for the Preparation of Material Safety Data Sheets.
Approved Criteria for Classifying Hazardous Substances.
Exposure Standards for Atmospheric Contaminants in the Occupational Environment.
Australian Dangerous Goods Code. The Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

16 OTHER INFORMATION

ISSUED BY

Helen O'Reilly

REVISION DATE NOVEMBER 2010

**REV. NO./REPL. SDS
GENERATED** 3

SDS NO. 10541

RISK PHRASES IN FULL

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R65	Harmful: may cause lung damage if swallowed.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.