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

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Content %</th>
<th>Classification (67/548)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCARBON DISTILLATE</td>
<td>265-185-4</td>
<td>64742-82-1</td>
<td>30-60%</td>
<td>Xn;R65. N;R51/53. R10,R66.</td>
</tr>
<tr>
<td>WHITE SPIRIT</td>
<td>265-151-9</td>
<td>64742-49-0</td>
<td>10-30%</td>
<td>Xn;R65. Xi;R38. N;R51/53. R67,R10.</td>
</tr>
</tbody>
</table>
POLYURETHANE CONFORMAL COATING

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No</th>
<th>LOEC</th>
<th>Alert Level</th>
<th>R-Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>202-496-6</td>
<td>96-29-7</td>
<td>1-5%</td>
<td>T;R48/22 R43 R52/53</td>
</tr>
<tr>
<td>DEAROMATISED KEROsINE</td>
<td>265-149-8</td>
<td>6474-47-8</td>
<td>1-5%</td>
<td>Xn,R65.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>STD TWA - 15 Min</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>ES-TWA</td>
<td>80 ppm</td>
<td>350 mg/m3</td>
<td>150 ppm 655 mg/m3</td>
</tr>
</tbody>
</table>

PROTECTIVE EQUIPMENT
POLYURETHANE CONFORMAL COATING

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

<table>
<thead>
<tr>
<th>APPEARANCE</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOUR</td>
<td>Brown</td>
</tr>
<tr>
<td>ODOR</td>
<td>Characteristic</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Immiscible with water</td>
</tr>
<tr>
<td>BOILING POINT (°C)</td>
<td>152 - 198 (305.6 - 372.2F)</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>0.920 @ 20 °C (68°F)</td>
</tr>
<tr>
<td>FLASH POINT (°C)</td>
<td>38 (100.4°F) CC (Closed cup)</td>
</tr>
<tr>
<td>AUTO IGNITION TEMPERATURE (°C)</td>
<td>230 (446°F)</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - LOWER(%)</td>
<td>0.90</td>
</tr>
<tr>
<td>FLAMMABILITY LIMIT - UPPER(%)</td>
<td>8.0</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Toxic Dose 1 - LD 50</th>
<th>Toxic Dose 2 - LD 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE</td>
<td>4300 mg/kg (oral rat)</td>
<td>2000 mg/kg (oral-rbt)</td>
</tr>
</tbody>
</table>
POLYURETHANE CONFORMAL COATING

Toxic Conc. - LC 50  
Name HYDROCARBON DISTILLATE  
Toxic Dose 1 - LD 50  >5000 mg/kg (oral rat)  
Toxic Dose 2 - LD 50  >3000 mg/kg (oral-rat)  
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

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

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.

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.

16 OTHER INFORMATION

ISSUED BY
Helen O'Reilly

REVISION DATE
NOVEMBER 2010

REV. NO./REPL. SDS
3

GENERATED
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.