

SAFETY DATA SHEET

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Permabond Cleaner A

Revision 2
Revision date 13-Jul-2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Permabond Cleaner A
Company Permabond Engineering Adhesives Ltd
Wessex Business Park
Wessex Way
Colden Common
Hampshire
SO21 1WP
United Kingdom
Telephone +44 (0)1962 711661
Fax +44 (0)1962 711662

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

| | Conc. | CAS | EINECS | Symbols/Risk phrases |
|-------------------------|---------|----------|-----------|---|
| Butane | 10-20% | 106-97-8 | 203-448-7 | F+; R12 |
| Heptane. (n-Heptane) | 50-100% | 142-82-5 | 205-563-8 | F; R11 Xn; R65 Xi; R38 R67 N; R50/53 |

3. HAZARDS IDENTIFICATION

Main hazards Highly flammable. Irritating to skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

Skin contact Repeated or prolonged exposure may cause dermatitis and skin irritation, due to the degreasing properties of the product.

4. FIRST AID MEASURES

Skin contact Wash with soap and water. If symptoms develop, obtain medical attention.

Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation Move the exposed person to fresh air. If symptoms develop, obtain medical attention.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

5. FIRE FIGHTING MEASURES

Extinguishing media Dry chemical. , foam.

Fire hazards Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.

Protective equipment Wear: Self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions | Eliminate all sources of ignition. Evacuate personnel to a safe area. |
| Environmental precautions | Do not allow product to enter drains. |
| Clean up methods | For small quantities: Evaporates readily. For large spills: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. |

7. HANDLING AND STORAGE

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|-----------------|--|
| Handling | Do not breathe gas/fumes/vapour/spray. Do not spray on naked flame or any other incandescent material. |
| Storage | Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. For safety reasons in case of fire, cans should be stored separately in closed containments. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

| | | |
|-------------------------|--|--|
| Butane | WEL 8-hr limit ppm: 600 WEL 15 min limit ppm: 750 | WEL 8-hr limit mg/m ³ : 1450 WEL 15 min limit mg/m ³ : 1810 |
| Heptane. (n-Heptane) | WEL 8-hr limit ppm: 500 WEL 15 min limit ppm: - | WEL 8-hr limit mg/m ³ : - WEL 15 min limit mg/m ³ : - |

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| Engineering measures | Ensure adequate ventilation of the working area. |
| Respiratory protection | Not normally required. |
| Hand protection | Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374. |
| Eye protection | Safety glasses, goggles or face shield to protect against splashing. Personal eye protection should conform to EN 166 |
| Protective equipment | Uniforms, coveralls, or a lab coat should be worn. Wash before eating, drinking, or using toilet facilities. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|---------------------|
| Description | Liquid. |
| Colour | Colourless. |
| Odour | Characteristic. |
| Boiling point | 102°C |
| Flash point | -26°C |
| Vapour pressure | 0.05 kPa |
| Relative density | 0.68 |
| Water solubility | insoluble in water. |
| Viscosity | ~0.7 mPa.s |

10. STABILITY AND REACTIVITY

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|------------------|---------|
| Stability | Stable. |
|------------------|---------|

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11. TOXICOLOGICAL INFORMATION

| | |
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| Corrosivity | Irritating to skin. |
| Sensitization | None known . |
| Repeated or prolonged exposure | Prolonged skin contact may defat the skin and produce dermatitis. |
| Mutagenic effects | None known . |
| Carcinogenic effects | None known . |
| Further information | The toxicological properties of this product have not been fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale. |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
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13. DISPOSAL CONSIDERATIONS

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| General information | Waste disposal should be in accordance with existing Community, National and local regulations. |
| Disposal methods | Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. |
| Disposal of packaging | Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied. |

14. TRANSPORT INFORMATION

ADR/RID

UN 1950
Class 2
Proper Shipping Name
AEROSOLS

Packing group -
Hazard ID -

IMDG

UN 1950
Class 2
EmS Code F-D S-U

Packing group -
Marine pollutant NO

IATA

UN 1950
Class 2

Packing group -
Subsidiary risk see SP63

15. REGULATORY INFORMATION

Symbols F - Highly flammable; Xi - Irritant; N - Dangerous for the environment



Risk phrases

R11 - Highly flammable.
R38 - Irritating to skin.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 - Vapours may cause drowsiness and dizziness.

Safety phrases

S9 - Keep container in a well-ventilated place.
S16 - Keep away from sources of ignition - No smoking.
S51 - Use only in well-ventilated areas.

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16. OTHER INFORMATION

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| Text of risk phrases in Section 2 | R11 - Highly flammable. R12 - Extremely flammable. R38 - Irritating to skin. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed. R67 - Vapours may cause drowsiness and dizziness. |
| General information | Directives 1999/45/EC and 91/155/EEC have been considered when compiling this SDS. The information is provided for health and safety assessment by an industrial user. Reference should be made to any relevant local or national health, safety, and environmental legislation. This information does not constitute indication of suitability for specific uses. |
| Revision | This document differs from the previous version in the following areas: 11 - repeated or prolonged exposure. 12 - ecotoxicity. 3 - skin contact. 4 - ingestion. |