

SAFETY DATA SHEET

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Permabond TA440A

Revision No. 2
Revision Date

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

Product name Permabond TA440A

Company Permabond Engineering Adhesives Ltd
Wessex Business Park
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Colden Common
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United Kingdom

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Recommended use

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous components | Conc. | CAS | EINECS | Risks |
|----------------------------------|---------|------------|-----------|---------------------------------|
| a-a-Dimethylbenzyl hydroperoxide | 0.1-1% | 80-15-9 | 201-254-7 | T;N;R21/22-23-34-48/20/22-51/53 |
| 2-Hydroxyethyl methacrylate | 10-20% | 868-77-9 | 212-782-2 | Xi;R36/38-43 |
| Methacrylate Esters | 50-100% | | | Xi;R36/37/38 |
| Acrylic acid | 3-5% | 79-10-7 | 201-177-9 | C;R20/21/22-35-50 |
| Hydroxypropyl Methacrylate | 10-20% | 27813-02-1 | 248-66-3 | Xi;R36 Xi;R43 |

3. HAZARDS IDENTIFICATION

Most important hazards Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

Physico-chemical properties No special precautions required.

Environmental properties No special environmental precautions required.

4. FIRST AID MEASURES

Skin contact Immediate medical attention is not required. Wash off with warm water and soap. If symptoms develop, obtain medical attention.

Eye contact Immediate medical attention is not required. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation persists.

Inhalation Immediate medical attention is not required. Move to fresh air. If symptoms develop, obtain medical attention.

Ingestion Immediate medical attention is not required. Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | Carbon dioxide (CO ₂). , dry chemical. , foam. , water spray. |
| Specific hazards | Burning produces obnoxious and toxic fumes. In the event of fire the following can be released:. Carbon monoxide, carbon dioxide, and unknown hydrocarbons. |
| Special protective equipment for fire-fighters | In the event of fire, wear self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions | Ensure adequate ventilation. Use personal protective equipment. |
| Environmental precautions | No special environmental precautions required. |
| Methods for cleaning up | Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. |

7. HANDLING AND STORAGE

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| Handling | Always replace cap after use. Never return unused material to storage receptacle. |
| Storage | Keep in a dry, cool place. Keep away from direct sunlight. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Respiratory protection | No personal respiratory protective equipment 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. |
| Skin and body protection | Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance. Wash before eating, drinking, or using toilet facilities. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Description | Liquid. |
| Colour | Amber. |
| Odour | Acrylic. |
| Flash point | 100°C |
| Vapour pressure | <3 mbar |
| Relative density | 1.1 |
| Water solubility | insoluble. |
| Viscosity | ~10000 mPa.s |

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10. STABILITY AND REACTIVITY

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| Stability | Stable under recommended storage conditions. |
| Conditions to avoid | Extremes of temperature and direct sunlight. |
| Materials to avoid | Strong acids and oxidizing agents. , metals. , rust. |
| Hazardous decomposition products | Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds. |

11. TOXICOLOGICAL INFORMATION

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| Primary irritation | Irritating to eyes, respiratory system and skin. |
| Sensitization | May cause sensitisation by skin contact. |
| 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 effects | No data is available on the product itself. |
| Further Information | Do not empty into drains. |


13. DISPOSAL CONSIDERATIONS

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| General Information | Waste disposal should be in accordance with existing Community, National and local regulations. |
| Contaminated packaging | Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied. |

14. TRANSPORT INFORMATION

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| Further Information | Not classified as dangerous in the meaning of transport regulations. |
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15. REGULATORY INFORMATION

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| Symbol(s) | Xi - Irritant  |
| R-phrases(s) | R36/37/38 - Irritating to eyes, respiratory system and skin. R43 - May cause sensitization by skin contact. |
| S-phrases(s) | S24 - Avoid contact with skin. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 - Wear suitable gloves. |
| Contains | Hydroxyethyl methacrylate. Hydroxypropyl methacrylate. |

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16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R21/22 - Harmful in contact with skin and if swallowed.
R23 - Toxic by inhalation.
R34 - Causes burns.
R35 - Causes severe burns.
R36 - Irritating to eyes.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R36/38 - Irritating to eyes and skin.
R43 - May cause sensitization by skin contact.
R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R50 - Very toxic to aquatic organisms.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other 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.