

SAFETY DATA SHEET

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Permabond TA4302B

Revision 0
Revision date 16-Jan-2009

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Permabond TA4302B
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
Intended use Adhesives.

2 HAZARDS IDENTIFICATION.

Main hazards Highly flammable. Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.
Personal precautions No precautions required to be mentioned.
Environmental precautions No environmental requirements.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Aniline	0.1 - 1%	62-53-3	200-539-3	Carc Cat 3; R40 Muta Cat 3; R68 T; R23/24/25-48/23/24/25 Xi; R41 R43 N; R50
Methyl methacrylate	50 - 100%	80-62-6	201-297-1	F; R11 Xi; R37/38 R43
Butanal, reaction products with aniline	1 - 10%	68411-20-1		Xi;R36

4. FIRST AID MEASURES

Skin contact Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical attention if irritation persists.
Inhalation Move the exposed person to fresh air. If symptoms develop, obtain medical attention.
Ingestion Treat symptomatically and supportively. If symptoms develop, obtain medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media Carbon dioxide (CO2) Dry chemical. Foam.
Fire hazards Vapour may travel considerable distance to source of ignition and flash back. Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.
Protective equipment In case of fire and/or explosion do not breathe fumes. Wear: Self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Do not breathe vapour. Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions	Do not allow product to enter drains. Do not flush into surface water. Do not let product contaminate subsoil.
Clean up methods	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Use in a well ventilated area. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Storage	Keep container tightly closed and in a well-ventilated place. Store at temperatures below 25 °C. Store in a cool, dry area.
Suitable packaging	Do not repack.
Specific use	This product is not recommended for use in joints which will be in contact with steam.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Aniline	WEL 8-hr limit ppm: 1 WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: -
Methyl methacrylate	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100	WEL 8-hr limit mg/m3: 208 WEL 15 min limit mg/m3: 416

Engineering measures	Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be provided.
Respiratory protection	Not normally required.
Hand protection	Employee must wear appropriate protective gloves to prevent contact with this substance. 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	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance. Wash hands before eating, drinking, or using toilet facilities.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	Green.
Odour	Acrylic.
Boiling point	100°C
Flash point	11°C
Vapour pressure	28mm Hg
Relative density	1.02
Water solubility	insoluble in water.
Viscosity	~5000 mPa.s
Vapour density	3.46 (air=1)
Autoignition temperature	420°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Bases. Oxidising agents.
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

Corrosivity	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

Ecotoxicity	No data is available on this product.
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13. DISPOSAL CONSIDERATIONS

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



14. TRANSPORT INFORMATION

Further information	The product is not classified as dangerous for carriage.
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15. REGULATORY INFORMATION

Symbols	F - Highly flammable; Xi - Irritant  
Risk phrases	R11 - Highly flammable. R36/37/38 - Irritating to eyes, respiratory system and skin. R43 - May cause sensitisation by skin contact.
Safety phrases	S16 - Keep away from sources of ignition - No smoking. S24 - Avoid contact with skin. S37 - Wear suitable gloves.
Product contains	Methyl Methacrylate.

16. OTHER INFORMATION

Text of risk phrases in Section 3.	R11 - Highly flammable. R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R36 - Irritating to eyes. R37/38 - Irritating to respiratory system and skin. R40 - Limited evidence of a carcinogenic effect. R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact. R48/23/24/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R50 - Very toxic to aquatic organisms. R68 - Possible risk of irreversible effects.
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.