

SAFETY DATA SHEET

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Permabond MH052

Revision No. 4

Revision Date 20-Dec-2005

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

Product name Permabond MH052

Company Permabond Engineering Adhesives Ltd
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Recommended use Adhesives and/or sealants.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	Conc.	CAS	EINECS	Risks
2-Hydroxyethyl methacrylate	1-3%	868-77-9	212-782-2	Xi;R36/38-43
Methacrylate Esters	50-100%			Xi;R36/37/38
a-a-Dimethylbenzyl hydroperoxide	1-3%	80-15-9	201-254-7	T;N;R21/22-23-34-48/20/22-51/53
Hydroxypropyl Methacrylate	0.1-1%	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

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

Personal precautions	Contaminated surfaces will be extremely slippery.
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

Handling	Always replace cap after use. Never return unused material to storage receptacle.
Storage	Keep in a dry, cool place. Avoid the absence of air, and metal contamination.
Packaging material	Do not repack.
Specific use(s)	This product is not recommended for use in joints which will be in contact with steam.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Paste.
Colour	Yellow.
Odour	Acrylic.
Flash point	>100°C.
Vapour pressure	<5mm Hg
Relative density	1.1
Water solubility	insoluble.
Viscosity	~50000 mPa.s
Vapour density	>1

10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to avoid	Avoid the absence of air, and metal contamination.
Materials to avoid	Metals and their salts, Reducing agents, Oxidizers, Free radical initiators.
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

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

Ecotoxicity effects	No data is available on the product itself.
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13. DISPOSAL CONSIDERATIONS

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

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

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.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2	R21/22 - Harmful in contact with skin and if swallowed. R23 - Toxic by inhalation. R34 - Causes 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. 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.
Further information	This data sheet contains changes from the previous version in section(s): 9 - flash point.