SAFETY DATA SHEET

Permabond A025

Revision 5
Revision date 27-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Permabond A025

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Risks
N,N-Dimethyl-p-toluidine	0.1-1%	99-97-8	202-805-4	T; R23/24/25 R33 R52/53
Trimethylolpropane trimethacrylate	50-100%	3290-92-4	221-950-4	Xi;R36 Xi;R38
Cumene Hydroperoxide.	1-3%	80-15-9	201-254-7	T;N;R21/22-23-34-48/20/22-51/53

3. HAZARDS IDENTIFICATION

Main hazards Irritating to eyes, respiratory system and skin.

Personal precautions No precautions required to be mentioned.

Environmental precautions No environmental requirements.

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. 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, water spray.

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

Protective equipment Wear: Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Surfaces contaminated with the product will become slippery.

Environmental precautions No environmental requirements.

Clean up methods Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal.

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7. HANDLING AND STORAGE

Handling	Always replace cap after use. Never return unused material to storage receptacle.
Storage	Keep in a cool, dry, well ventilated area. Avoid the absence of air, and metal contamination.
Suitable packaging	Do not repack.
Specific use	This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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	Orange.
Odour	Acrylic.
Flash point	>100°C
Vapour pressure	<5mm Hg
Relative density	1.02
Water solubility	insoluble in water.
Viscosity	~750 mPa.s

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

Corrosivity	Irritating to eyes, respiratory system and skin.
Sensitization	None known .
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 classifed as dangerous for carriage.

15. REGULATORY INFORMATION

Symbols Xi - Irritant

Risk phrases R36/37/38 - Irritating to eyes, respiratory system and skin.

Safety phrases S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION

Text of risk phrases in Section 2

R21/22 - Harmful in contact with skin and if swallowed.
R23 - Toxic by inhalation.
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.
R33 - Danger of cumulative effects.
R34 - Causes burns.
R36 - Irritating to eyes.
R38 - Irritating to skin.
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.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Further information This document differs from the previous version in the following areas: [] - [].