

SAFETY DATA SHEET

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Permabond TA4302A

Revision 0
Revision date

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Permabond TA4302A
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. Causes burns. Irritating to respiratory system. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Skin contact Corrosive. May cause sensitisation by skin contact.
Eye contact Causes burns.
Ingestion Corrosive.
Environmental precautions Not readily biodegradable.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
2-Methylpropenoic acid (Methacrylic acid)	5 - 10%	79-41-4	201-204-4	Xn; R21/22 C; R35
Methyl methacrylate	20 - 50%	80-62-6	201-297-1	F; R11 Xi; R37/38 R43
Bisphenol A-(epichlorhydrin)_(reaction product)	1 - 5%	25036-25-3	500-033-5	Xi; R36/37/38 R43 N; R51/53
Methacrylates	1 - 10%			Xi; R36/37/38

4. FIRST AID MEASURES

Skin contact Remove contaminated clothing. Wash off immediately with plenty of 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. Contact lenses should be removed. Seek medical attention.
Inhalation Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Ingestion If swallowed, seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water.

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5. FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide (CO ₂) Dry chemical. Foam. Sand. Water spray.
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.

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. 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

2-Methylpropenoic acid (Methacrylic acid)	WEL 8-hr limit ppm: 20 WEL 15 min limit ppm: 40	WEL 8-hr limit mg/m ³ : 72 WEL 15 min limit mg/m ³ : 143
Methyl methacrylate	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100	WEL 8-hr limit mg/m ³ : 208 WEL 15 min limit mg/m ³ : 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	Red.
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	Acids. Bases. Oxidising agents.
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

Corrosivity	Causes burns.
Sensitization	May cause sensitisation by skin contact.
Repeated or prolonged exposure	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	Harmful to aquatic organisms.
Degradability	Not readily biodegradable.

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.

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14. TRANSPORT INFORMATION

ADR/RID

UN 2924	Packing group II
Class 3	Hazard ID 338
Proper Shipping Name FLAMMABLE LIQUID, CORROSIVE, N.O.S. (contains Methylmethacrylate and Methacrylic Acid).	



IMDG

UN 2924	Packing group II
Class 3	Marine pollutant .
EmS Code F-E S-C	

IATA

UN 2924	Packing group II
Class 3	Subsidiary risk 8
Packing Instruction 307 (Cargo)	Maximum quantity 5 L
Packing Instruction 305 (Passenger)	Maximum quantity 1 L

15. REGULATORY INFORMATION

Labelling	P5 - Contains epoxy constituents. See information supplied by the manufacturer.
Symbols	F - Highly flammable; C - Corrosive
	 
Risk phrases	R11 - Highly flammable. R34 - Causes burns. R37 - Irritating to respiratory system. R43 - May cause sensitisation by skin contact. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases	S16 - Keep away from sources of ignition - No smoking. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33 - Take precautionary measures against static discharges. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
Product contains	Epoxy Resin (Molecular weight <=700) Methacrylic Acid. Methyl Methacrylate.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.

R11 - Highly flammable.
R21/22 - Harmful in contact with skin and if swallowed.
R35 - Causes severe burns.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R37/38 - Irritating to respiratory system and skin.
R43 - May cause sensitisation by skin contact.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further 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.