

SAFETY DATA SHEET

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Permabond ES562

Revision 0
Revision date 28-Jan-2008

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Permabond ES562
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. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Bisphenol A-(epichlorhydrin) (reaction product)	50 - 100%	25068-38-6	500-033-5	Xi; R36/37/38 R43 N; R51/53

3. HAZARDS IDENTIFICATION

Main hazards Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Personal precautions No precautions required to be mentioned.

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 Wear suitable protective equipment.
Environmental precautions Do not allow product to enter drains.
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	Avoid contact with eyes and skin. Wear suitable protective equipment.
Storage	Keep in a cool, dry, well ventilated area.

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	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	White.
Odour	Slight.
Flash point	>100°C
Viscosity	~15500 mPa.s

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Amines. Oxidising agents. Acids. Bases.
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	Toxic 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 3082
Class 9
Packing group III
Hazard ID 90
Proper Shipping Name ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,
LIQUID, N.O.S, (contains
Epoxy resin).

IMDG

UN 3082
Class 9
EmS Code F-A S-F
Packing group III
Marine pollutant NO

IATA

UN 3082
Class 9
Packing group III
Subsidiary risk -
Packing Instruction 914
(Cargo) Maximum quantity 450 L
Packing Instruction 914
(Passenger) Maximum quantity 450 L

15. REGULATORY INFORMATION

Symbols

Xi - Irritant; N - Dangerous for the environment



Risk phrases

R36/38 - Irritating to eyes 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.

Safety phrases

S24 - Avoid contact with skin.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29 - Do not empty into drains.
S37 - Wear suitable gloves.

Product contains

Epoxy Resin (Molecular weight <=700)

16. OTHER INFORMATION

Text of risk phrases in Section 2

R36/37/38 - Irritating to eyes, 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.

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.