

## SAFETY DATA SHEET

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### Permabond ES550

Revision 1  
Revision date 9-Oct-2006

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

**Product name** Permabond ES550  
**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 before eating, drinking, or using toilet facilities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Paste.
Colour	Grey.
Odour	Slight.
Flash point	>100°C
Vapour pressure	<5mm Hg
Relative density	1.5
Water solubility	insoluble in water.

## 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

Proper Shipping ENVIRONMENTALLY UN 3082  
 Name HAZARDOUS SUBSTANCE,  
 LIQUID, N.O.S. (contains epoxy  
 resin)  
 Packing group III Class 9  
 Hazard ID 90

### IMDG

UN 3082 Packing group III  
 Class 9 Marine pollutant .  
 EmS Code F-A S-F

### IATA

Packing Instruction 914 Maximum quantity NO LIMIT  
 (Cargo)  
 Packing Instruction 914 Maximum quantity NO LIMIT  
 (Passenger)  
 UN 3082 Packing group III  
 Class 9 Subsidiary risk -

## 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.  
 S37 - Wear suitable gloves.

**Product contains** Epoxy Resin (Molecular weight <=700)

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## 16. OTHER INFORMATION

<b>Text of risk phrases in Section 2</b>	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.
<b>General information</b>	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.
<b>Revision</b>	This document differs from the previous version in the following areas: 1 - intended use. 10 - stability. 10 - materials to avoid. 12 - ecotoxicity. 14 - aDR/RID. 4 - ingestion. 5 - extinguishing media.