

# SAFETY DATA SHEET

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## Permabond 2011

Revision 2  
Revision date 26-Apr-2006

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

**Product name** Permabond 2011  
**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	Risks
Ethyl-2-cyanoacrylate	50-100%	7085-85-0	230-391-5	Xi; R36/37/38

### 3. HAZARDS IDENTIFICATION

**Main hazards** Irritating to eyes, respiratory system and skin.  
**Skin contact** On contact, immediate bonding of the skin will occur.  
**Eye contact** On contact, will bond eyelids together. Vapours are lachrymatory.  
**Ingestion** On contact, immediate bonding of mouth could occur.

### 4. FIRST AID MEASURES

**Skin contact** No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. If symptoms develop, obtain medical attention.  
**Eye contact** Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result.  
**Inhalation** Move the exposed person to fresh air. Get medical attention if irritation persists.  
**Ingestion** Immediate medical attention is required. Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Carbon dioxide (CO<sub>2</sub>), dry chemical, foam.  
**Fire hazards** Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth. Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide, carbon dioxide, and hydrogen cyanide.  
**Protective equipment** Wear: Self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
<b>Environmental precautions</b>	No environmental requirements.
<b>Clean up methods</b>	Small spills: wipe up with cloth. Immediately soak cloth with water to polymerize the adhesive. Caution! Cloth containing adhesive may undergo autoignition if not soaked with water. Large spills: flood area with water. When cured, remove film with a scraper. Wear approved respirator for organic vapours if needed, and protective clothing.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Always replace cap after use.
<b>Storage</b>	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Ethyl cyanoacrylate	WEL 8-hr limit ppm: - WEL 15 min limit ppm: 0.3	WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: 1.5
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<b>Engineering measures</b>	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.
<b>Respiratory protection</b>	Not normally required.
<b>Hand protection</b>	Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374.
<b>Eye protection</b>	Safety glasses, goggles or face shield to protect against splashing. Personal eye protection should conform to EN 166.
<b>Protective equipment</b>	Uniforms, coveralls, or a lab coat should be worn. Wash before eating, drinking, or using toilet facilities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Gel.
<b>Colour</b>	Colourless.
<b>Odour</b>	Pungent.
<b>Boiling point</b>	>200°C
<b>Flash point</b>	83°C
<b>Vapour pressure</b>	<5mm Hg
<b>Relative density</b>	1.08
<b>Viscosity</b>	~70000 mPa.s
<b>Vapour density</b>	>1

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Direct sunlight. Heat.
<b>Materials to avoid</b>	Water. Amines. Bases. Peroxides.
<b>Hazardous decomposition products</b>	Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide, carbon dioxide, and hydrogen cyanide.

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## 11. TOXICOLOGICAL INFORMATION

<b>Corrosivity</b>	Irritating to eyes, respiratory system and skin.
<b>Sensitization</b>	Under EU legislation the cyanoacrylates do not require classification as sensitisers and the rapid polymerisation caused on contact with moisture makes this unlikely. However the American Conference of Governmental Industrial Hygienists (ACGIH) has reported some limited evidence of skin and respiratory sensitisation. May cause allergic reactions in susceptible people.
<b>Mutagenic effects</b>	None known .
<b>Carcinogenic effects</b>	None known .

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data is available on this product.
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## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Waste disposal should be in accordance with existing Community, National and local regulations.
<b>Disposal of packaging</b>	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

## 14. TRANSPORT INFORMATION

### ADR/RID

UN 3334  
Hazard ID -

**Class 9**  
**Proper Shipping** AVIATION REGULATED  
**Name** LIQUID, N.O.S. Contains Ethyl  
Cyanoacrylate (applies only to  
inner containers >1 litre.)

### IMDG

UN 3334  
Marine pollutant NO


**Class 9**  
**EmS Code** -

### IATA

UN 3334  
Subsidiary risk -  
  
Maximum quantity 220 L  
  
Maximum quantity 100 L

**Class 9**  
**Packing Instruction** 906  
**(Cargo)**  
**Packing Instruction** 906  
**(Passenger)**

## 15. REGULATORY INFORMATION

<b>Labelling</b>	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
<b>Symbols</b>	Xi - Irritant 
<b>Risk phrases</b>	R36/37/38 - Irritating to eyes, respiratory system and skin.
<b>Safety phrases</b>	S23 - Do not breathe gas/fumes/vapour/spray. S24/25 - Avoid contact with skin and eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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## 16. OTHER INFORMATION

**Text of risk phrases in Section 2** R36/37/38 - Irritating to eyes, respiratory system and skin.

**Further information**

Directives 1999/45/EC and 91/155/EEC have been considered when compiling this SDS. The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. 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. This document differs from the previous version in the following areas:

4 - ingestion.