

# SAFETY DATA SHEET

Permabond A131

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Permabond A131	
1.2. Relevant identified uses	s of the substance or mixture and uses advised against	
Identified uses	Adhesive. Sealant.	
1.3. Details of the supplier of the safety data sheet		
Supplier	Permabond Engineering Adhesives Ltd.	
	Wessex Way	
	Colden Common	
	Winchester	
	Hampshire. SO21 1WP	
	United Kingdom	
	Tel: +44 (0)1962 711 661	
	Fax: +44 (0)1962 711 662	
	info.europe@permabond.com	
1.4. Emergency telephone number		
Emergency telephone	UK +44 (0)1962 711 661 USA 0800 640 7599 Asia +86 (0)21 5773 4913	
SECTION 2: Hazards identification		

21	Classification	of the	substance	or mixture

Classification	
Physical hazards	Not Classified
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified

Classification (67/548/EEC or Xi;R36/37. 1999/45/EC)

### 2.2. Label elements

Pictogram



Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.
Precautionary statements	P280 Wear protective gloves, eye and face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplementary precautionary	P264 Wash contaminated skin thoroughly after handling.
statements	P337+P313 If eye irritation persists: Get medical advice/attention.
	P501 Dispose of contents/container in accordance with existing Community, National and
	local regulations.

### 2.3. Other hazards

None under normal conditions.

### SECTION 3: Composition/information on ingredients

3.2. Mixtures	
CUMENE HYDROPEROXIDE	1-< 2.5
CAS number: 80-15-9	EC number: 201-254-7
Classification	Classification (67/548/EEC or 1999/45/EC)
Org. Perox. E - H242	O;R7 T;R23 C;R34 Xn;R21/22,R48/20/22 N;R51/53
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 3 - H331	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
STOT RE 2 - H373	
Aquatic Chronic 2 - H411	
N,N-DIMETHYL-PARA-TOLUIDINE	E <1
CAS number: 99-97-8	EC number: 202-805-4
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 3 - H301	T;R23/24/25 R33 R52/53

STOT RE 2 - H373 Aquatic Chronic 3 - H412

Acute Tox. 3 - H311 Acute Tox. 3 - H331

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures		
4.1. Description of first aid measures		
Inhalation	Move the exposed person to fresh air. Get medical attention if any discomfort continues.	
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.	
Skin contact	Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention	
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.	
4.2. Most important symptoms and effects, both acute and delayed		
Inhalation	Irritation of nose, throat and airway.	
Eye contact	Irritating and may cause redness and pain.	

4.3. Indication of any immediate medical attention and special treatment needed		
Notes for the doctor	No specific recommendations. Treat symptomatically.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	om the substance or mixture	
Hazardous combustion products	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide, and unknown hydrocarbons.	
5.3. Advice for firefighters		
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
SECTION 6: Accidental releas	e measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
6.2. Environmental precaution	<u>S</u>	
Environmental precautions	Not considered to be a significant hazard due to the small quantities used. Avoid discharge into drains.	
6.3. Methods and material for	containment and cleaning up	
Methods for cleaning up	Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal.	
6.4. Reference to other section		
Reference to other sections	For personal protection, see Section 8. For waste disposal, see section 13.	
SECTION 7: Handling and sto	rage	
7.1. Precautions for safe hand	ling	
Usage precautions	Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storag	e, including any incompatibilities	
Storage precautions	Store in closed original container at temperatures between 5°C and 25°C. Never return unused material to storage receptacle.	
7.3. Specific end use(s)		
Specific end use(s)	This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.	
Usage description	Adhesive. Sealant.	
SECTION 8: Exposure Contro	ls/personal protection	
8.1. Control parameters		

8.2. Exposure controls

# Protective equipment

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Respiratory protection	Not normally required.
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.
Other skin and body protection	Uniforms, coveralls, or a lab coat should be worn
Hand protection	Nitrile rubber or Viton <sup>™</sup> gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166
Appropriate engineering controls	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.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

9.1. Information on basic prive	
Appearance	Liquid.
Colour	White.
Odour	Acrylic
Odour threshold	Not available.
рН	Not relevant.
Melting point	Not available.
Initial boiling point and range	Not applicable.
Flash point	>100°C
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.1
Solubility(ies)	Insoluble in water. Miscible with the following materials: Organic solvents.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	≈40000 mPa s @ 23°C
Oxidising properties	Not available.

#### 9.2. Other information

9.2. Other mormation	
Volatile organic compound	This product contains a maximum VOC content of <1% . According to EC Directive 2004/42/EC
SECTION 10: Stability and re	eactivity
10.1. Reactivity	
Reactivity	The following materials may react with the product: Strong oxidising agents.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous	s reactions
Possibility of hazardous reactions	There are no known reactivity hazards associated with this product.
10.4. Conditions to avoid	
Conditions to avoid	Avoid the absence of air, and metal contamination.
10.5. Incompatible materials	
Materials to avoid	Metals and their salts, Reducing agents, Oxidizers, Free radical initiators.
10.6. Hazardous decomposit	ion products
Hazardous decomposition products	Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.
SECTION 11: Toxicological i	nformation
11.1. Information on toxicolog	gical effects
Toxicological effects	The toxicological properties of this product have not been fully evaluated. Avoid direct contact with skin or eyes. Do not ingest or inhale.
Acute toxicity - oral	
Acute toxicity - dermal	
Acute toxicity - inhalation	
Aspiration hazard Aspiration hazard	None under normal conditions.
Inhalation	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Eye contact	Irritating to eyes.
Toxicological information on	ingredients.
	CUMENE HYDROPEROXIDE
Acute toxicity - oral	

Acute toxicity - oral Acute toxicity oral (LD₅₀ 382.0 mg/kg) Species Rat

ATE oral (mg/kg)	500.0	
Acute toxicity - dermal		
ATE dermal (mg/kg)	1,100.0	
Acute toxicity - inhalation		
ATE inhalation (vapours mg/l)	3.0	
Skin corrosion/irritation		
Animal data	Highly irritating.	
Serious eye damage/irritation		
Serious eye damage/irritation	Irritating to eyes.	
Skin sensitisation		
Skin sensitisation	Not sensitising.	
	N,N-DIMETHYL-PARA-TOLUIDINE	
Acute toxicity - oral		
Acute toxicity oral (LD₅₀ mg/kg)	139.0	
Species	Mouse	
ATE oral (mg/kg)	100.0	
Acute toxicity - dermal		
Acute toxicity dermal (LD₅₀ mg/kg)	212.0	
Species	Mouse	
ATE dermal (mg/kg)	300.0	
Acute toxicity - inhalation		
Acute toxicity inhalation (LC₅₀ vapours mg/l)	3.19	
Species	Mouse	
ATE inhalation (vapours mg/l)	3.19	
Skin corrosion/irritation		
Animal data	Moderately irritating.	
Serious eye damage/irritation	on	
Serious eye damage/irritation	Moderately irritating.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Ames test This substance has no evidence of mutagenic properties.	

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological Information		
Ecotoxicity	Not regarded as dangerous for the environment.	
12.1. Toxicity		
Toxicity	No data available.	
Ecological information on ingre	edients.	
Acute toxicity - fit	<b>sh</b> LC₅₀, 96 hour: 3.9 mg/l, Onchorhynchus mykiss (Rainbow trout)	
	N,N-DIMETHYL-PARA-TOLUIDINE	
Acute toxicity - fis	<b>sh</b> LC₅₀, 96 hours: 46 mg/l, Pimephales promelas (Fat-head Minnow)	
12.2. Persistence and degrada	ability	
Persistence and degradability	No data available.	
Ecological information on ingre	edients.	
Biodegradation	The substance is readily biodegradable.	
12.3. Bioaccumulative potentia	al	
Bioaccumulative potential	No data available on bioaccumulation.	
12.4. Mobility in soil		
Mobility	No data available.	
12.5. Results of PBT and vPvB assessment		
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	lerations	
13.1. Waste treatment method	ls	
General information	Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.	
Disposal methods	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.	
Waste class	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances	

SECTION 14: Transport information

General

The product is not classifed as dangerous for carriage.

#### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

Not applicable.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.
Water hazard classification	WGK 1

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

Revision date	27/05/2015
Revision	4
Supersedes date	13/08/2014

Risk phrases in full	<ul> <li>R21/22 Harmful in contact with skin and if swallowed.</li> <li>R23 Toxic by inhalation.</li> <li>R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.</li> <li>R33 Danger of cumulative effects.</li> <li>R34 Causes burns.</li> <li>R36/37 Irritating to eyes and respiratory system.</li> <li>R37 Irritating to respiratory system.</li> <li>R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</li> <li>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R7 May cause fire.</li> </ul>
Hazard statements in full	<ul> <li>H242 Heating may cause a fire.</li> <li>H301 Toxic if swallowed.</li> <li>H302 Harmful if swallowed.</li> <li>H311 Toxic in contact with skin.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H331 Toxic if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.