



# SAFETY DATA SHEET Permabond Initiator 46

1.1. Product identifier	
Product name	Permabond Initiator 46
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Activator.
1.3. Details of the supplier of t	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 nu	mber
Emergency telephone	UK +44 (0)1962 711 661 USA 0800 640 7599 Asia +86 (0)21 5773 4913
SECTION 2: Hazards identific	ation
2.1. Classification of the subst	tance or mixture
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards	Not Classified
2.2. Label elements	
Pictogram	
$\wedge$	
$\mathbf{V}$	
	Warning
Signal word	-
-	H302+H312 Harmful if swallowed or in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation.
Signal word Hazard statements Precautionary statements	H302+H312 Harmful if swallowed or in contact with skin. H315 Causes skin irritation.

Supplementary precautionary	P264 Wash contaminated skin thoroughly after handling.
statements	P270 Do not eat, drink or smoke when using this product.
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
	P337+P313 If eye irritation persists: Get medical advice/ attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

### 2.3. Other hazards

**SECTION 3: Composition/information on ingredients** 

None under normal conditions. This substance is not classified as PBT or vPvB according to current EU criteria.

3,5-DIETHYL-1,2-DIHYDRO-1-P PROPYLPYRIDINE	HENYL-2-	60-100%
CAS number: 34562-31-7	EC number: 252-091-3	
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
N-BUTYLANILINE		1-59
CAS number: 1126-78-9	EC number: 214-425-6	
Classification		
Acute Tox. 4 - H302		

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>•</b>		
Inhalation	Move the exposed person to fresh air. Get medical attention if any discomfort continues.	
Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.	
Eye contact	Remove any contact lenses and open eyelids wide apart. 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	
Ingestion	No specific symptoms known. May cause stomach pain or vomiting.	
Skin contact	Skin irritation.	
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 or dry powder.	
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising from the substance or mixture		
Hazardous combustion products	Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).	
5.3. Advice for firefighters		
Special protective equipment for firefighters	Wear self contained breathing apparatus and protective clothing.	
SECTION 6: Accidental release	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 precautions		
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	ns	
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 ingest or inhale. Avoid eating, drinking and smoking when using the 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)	Adhesive. Activator.	
SECTION 8: Exposure Contro	Is/personal protection	
8.1. Control parameters		
Ingredient comments	No exposure limits known for ingredient(s).	
8.2. Exposure controls		
Protective equipment		

Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: $\geq 0.4$ mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: $\geq 0.4$ mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. 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. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
Other skin and body protection	Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.
Hygiene measures	Wash 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.
Respiratory protection	Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A.

# SECTION 9: Physical and Chemical Properties

9.1. Information on basic phys	ical and chemical properties
ppearance	Liquid.
lour	Amber.
our	Sweetish.
ur threshold	Not determined.
	Not relevant.
ing point	Not determined.
al boiling point and range	162°C
sh point	>140°C
poration rate	Not available.
er/lower flammability or osive limits	Not available.
our pressure	Not available.
our density	Not available.
ative density	0.97
ubility(ies)	Insoluble in water. Soluble in the following materials: Organic solvents
o-ignition temperature	Not determined.
composition Temperature	Not available.

Viscosity	~70 mPa s @ 23°C
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Other information	Not relevant.
SECTION 10: Stability and read	activity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	There are no known reactivity hazards associated with this product.
10.4. Conditions to avoid	
Conditions to avoid	Avoid contact with the following materials: Acids. Oxidising agents.
10.5. Incompatible materials	
Materials to avoid	Strong acids. Strong oxidising agents.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide, carbon dioxide, and hydrogen cyanide.
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects
Toxicological effects	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.
Inhalation	Vapour may irritate respiratory system/lungs.
Ingestion	Harmful if swallowed.
Skin contact	Irritating to skin.
Eye contact	Irritating to eyes.
Toxicological information on in	ngredients.
	3,5-DIETHYL-1,2-DIHYDRO-1-PHENYL-2-PROPYLPYRIDINE
Acute toxicity - o	ral

Acute toxicity oral (LD<sub>50</sub> 500.1 mg/kg)

Species	Rat
ATE oral (mg/kg)	500.1
Acute toxicity - dermal	
Acute toxicity dermal (LD∞ mg/kg)	1,000.1
Species	Rabbit
ATE dermal (mg/kg)	1,000.1
Acute toxicity - inhalation	
Notes (inhalation LC <sub>50</sub> )	No specific test data are available.
Skin corrosion/irritation	
Skin corrosion/irritation	Moderately irritating.
Serious eye damage/irritatio	n
Serious eye damage/irritation	Moderately irritating.
Respiratory sensitisation	
Respiratory sensitisation	May cause respiratory system irritation.
Skin sensitisation	
Skin sensitisation	No specific test data are available.
Germ cell mutagenicity	
Genotoxicity - in vitro	No specific test data are available.
Carcinogenicity	
Carcinogenicity	No specific test data are available.
Reproductive toxicity	
Reproductive toxicity - fertility	No specific test data are available.
Specific target organ toxicit	y - single exposure
STOT - single exposure	No specific test data are available.
Specific target organ toxicit	y - repeated exposure
STOT - repeated exposure	No specific test data are available.
Aspiration hazard	
Aspiration hazard	No specific test data are available.
	N-BUTYLANILINE
Acute toxicity - oral	
Notes (oral LD₅₀)	No information available.
Acute toxicity - dermal	
Notes (dermal LD₅₀)	No information available.
Acute toxicity - inhalation	

Notes (inhalatio	on LC₅₀)	No information available.	
Skin corrosion/	irritation		
Skin corrosion/	irritation	Not available.	
Serious eye da	mage/irritat	ion	
Serious eye damage/irritatio	on	Not available.	
Respiratory ser	nsitisation		
Respiratory ser	nsitisation	Not available.	
Skin sensitisati	on		
Skin sensitisati	on	Not available.	
Germ cell muta	genicity		
Genotoxicity - i	n vitro	Not available.	
Carcinogenicity	<u>/</u>		
Carcinogenicity	/	Not available.	
Reproductive to	oxicity		
Reproductive to fertility	oxicity -	Not available.	
Specific target	organ toxici	ty - single exposure	
STOT - single e	STOT - single exposure Not available.		
Specific target	organ toxici	ty - repeated exposure	
STOT - repeate	STOT - repeated exposure Not available.		
Aspiration haza	ard		
Aspiration haza	ard	Not available.	
SECTION 12: Ecological Info	ormation		
Ecotoxicity	The pro-	duct is not expected to be hazardous to the environment.	
12.1. Toxicity			
Toxicity	defined Annex I	ture is classified based on the available hazard information for the ingredients as in the classification criteria for mixtures for each hazard class or differentiation in to Regulation 1272/2008/EC. Relevant available health/ecological information for the ces listed under Section 3 is provided in the following.	
12.2. Persistence and degra	dability		
Persistence and degradabilit	<b>ty</b> No data	available.	
12.3. Bioaccumulative poten	tial		
Bioaccumulative potential	No data	available on bioaccumulation.	
12.4. Mobility in soil			
Mobility	No data	available.	
12.5. Results of PBT and vP	vB assessn	nent	

Results of PBT and vPvB	This substance is not classified as PBT or vPvB according to current EU criteria.
assessment	

### 12.6 Other advarse offects

12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal considerations		
13.1. Waste treatment meth	lods	
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 classified 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 MARPOL 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).
	EH40/2005 Workplace exposure limits.
	Health and Safety at Work etc. Act 1974 (as amended).

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) 2015/830 of 28 May 2015 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.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	
Revision date	01/11/2017
Revision	4
Supersedes date	05/06/2015
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation.

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.