

## Permacrete

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 Issued: 26/04/2019; Revision No.1  
 Regulation (EU) 453/2010

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product Identifier

Material name : Permacrete  
 Product code :

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Epoxy based adhesive

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: IMG Ltd.,  
 Unit M  
 Riverside Industrial Estate  
 Fazeley  
 Tamworth  
 B78 3RW

Tel. : 01827 283322  
 Fax. : 01827 250143

Email (for SDSs) : sales@img-limited.co.uk

1.4 Emergency tel. no. : 01827 283322 (Available from 8.30 – 17.00 hours).

### 2. HAZARDS IDENTIFICATION

#### 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation.

Physical and Chemical Hazards	Not classified
Human health	Sk.Irrit.2; H315; Sk.Sens.1; H317; Eye.Irrit.2; H319; EUH205
Environment	Aq.Chronic 3; H412

#### 2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC

Signal word: Warning      Contains: Epoxy resin (number average MW ≤ 700)

Pictograms:



<b>Hazard statements:</b>	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H412	Harmful to aquatic life with long lasting effects.

<b>Supplemental label information:</b>	EUH205	Contains epoxy constituents. May produce an allergic reaction.
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<b>Precautionary statements:</b>	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.

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**Precautionary statements (continued):** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container in accordance with local/national regulations.

**2.3 Other hazards:** No data available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures:

##### Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
TALC	14807-96-6 238-877-9 01-2120140278-58-xxxx	Not classified but has a WEL.	20-50%
LIMESTONE (Calcium carbonate)	1317-65-3 215-279-6 -	Not classified but has a WEL	20-50%
EPOXY RESIN (NUMBER AVERAGE MW $\leq$ 700)	25068-38-6 500-033-5 01-2119456619-26-0018	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	10-30%
TITANIUM DIOXIDE	13463-67-7 236-675-5 01-2119489379-17-xxxx	Not classified but has a WEL	1-5%
DI-ISODECYL PHTHALATE	26761-40-0 247-977-1 -	Aq.Acute 1; H400 Aq.Chron.1; H410	1-5%

See Section 16 for the full text of the H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice:** Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

**Skin contact:** Wash skin thoroughly with soap and warm water. Dry skin and apply replenishing cream. Seek medical advice if irritation develops.

**Eye contact:** Rinse with water for 15 minutes and seek medical advice if irritation persists.

**Ingestion:** Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

**Inhalation:** No undue effects in normal circumstances, if affected remove to fresh air and seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause irritation to skin and eyes. May cause an allergic skin reaction.

**4.3 Indication of any immediate medical attention and special treatment needed:** See skin and eye contact information above.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable; use appropriate extinguishing media for the surrounding area.

Unsuitable extinguishing media: Not applicable.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

#### 5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool unopened containers. Do not allow fire run-off to enter drains.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

#### 6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

#### 6.3 Methods and materials for containment and cleaning up

Wipe up any liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

#### 6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area between 5°C and 25°C. Keep container tightly closed.

#### 7.3 Specific end use(s)

No information available.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Information	Reference
Talc	1 mg/m <sup>3</sup>	-	Respirable dust	EH40/2005
Limestone	10 mg/m <sup>3</sup> 4 mg/m <sup>3</sup>	- -	Inhalable dust Respirable dust	EH40/2005
Titanium Dioxide	10 mg/m <sup>3</sup> 4 mg/m <sup>3</sup>	- -	Inhalable dust Respirable dust	EH40/2005
Di-isodecyl phthalate	5 mg/m <sup>3</sup>	-	-	EH40/2005

#### DNEL:

DNEL (workers)	Epoxy resin (number average MW ≤ 700)	Titanium Dioxide
Chronic systemic effects (dermal)	8.33 mg/kg bw/day	-
Chronic systemic effects (inhalation)	12.25 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

DNEL (consumers)	Epoxy resin (number average MW ≤ 700)	Titanium Dioxide
Chronic systemic effects (dermal)	3.571 mg/kg bw/day	-
Chronic systemic effects (oral)	0.75 mg/kg bw/day	700 mg/kg

#### PNEC:

Environment	Epoxy resin (number average MW ≤ 700)	Titanium Dioxide
<b>Aquatic Compartment</b>		
Fresh water	0.006 mg/l	0.127 mg/l
Marine water	0.0006 mg/l	1 mg/l
Water-intermittent (sporadic) release	0.018 mg/l	0.61 mg/l
Dry Sediment – fresh water	0.996 mg/kg	1000 mg/kg
Dry Sediment – marine water	0.0996 mg/kg	100 mg/kg
<b>Terrestrial Compartment</b>		
Dry soil	No data available	100 mg/kg

#### 8.2 Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

#### Personal protective equipment

**Respiratory protection:** Self contained breathing apparatus may be required if handling in a confined space with no ventilation.

**Hand protection:** Nitrile or neoprene gloves; check with glove manufacturer for specific advice.

**Eye protection:** Tightly-fitting safety goggles.

**Skin and body protection:** Protective overalls.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls:** Do not discharge into drains or rivers.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

State and colour	Off white solid/paste
Odour	Mild
Odour Threshold	No data available
Flammability	Non-flammable
Flash point	>100°C
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	Not applicable
Oxidising properties	Non-oxidising
Solubility in water	Insoluble
Solubility in other solvents	Not determined
pH	Not applicable
Melting point/range	Not determined
Boiling point/range	>35°C
Relative density	~2.0
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	No data available
Evaporation rate	No data available

9.2 Other information No data available

### 10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	Prolonged heat.
10.5 Incompatible materials	Strong acids. Strong bases. Strong oxidising agents. Amines.
10.6 Hazardous decomposition products	Combustion will generate oxides of carbon, acrid smoke and irritating fumes.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Epoxy resin (number average MW ≤ 700)	11400 mg/kg (Rat)	No data available	>20 ml/kg (Rabbit)
Titanium Dioxide	>5000 mg/kg (Rat)	>6.8 mg/l 4h (Rat)	>5000 mg/kg(Rabbit)

Skin corrosion/irritation: May cause skin irritation.

Serious eye damage/eye irritation: May cause eye irritation.

Respiratory or skin sensitisation: May cause skin sensitisation.

Repeated dose toxicity: No data available.

Carcinogenicity: Not carcinogenic.

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### 11.1 Information on toxicological effects (continued)

<b>Mutagenicity:</b>	Not mutagenic.
<b>Toxicity for reproduction:</b>	Not expected to impair fertility.
<b>Specific target organ toxicity (STOT):</b>	No data available.
<b>Further information:</b>	No data available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Chemical name	Species	Test	Value
Titanium Dioxide	Daphnia	EC50/LC50	>100 mg/l
	Fish	EC50/LC50	>100 mg/l
	Aquatic plants	EC50/LC50	16 mg/l

<b>12.2 Persistence and degradability</b>	Partially biodegradable. Inorganic ingredients such as talc are not biodegradable.
<b>12.3 Bioaccumulative potential</b>	Potential for bioaccumulation.
<b>12.4 Mobility in soil</b>	Insoluble in water.
<b>12.5 Results of PBT and vPvB assessment</b>	Not identified as PBT/vPvB.
<b>12.6 Other adverse effects</b>	Harmful to aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations. Do not dispose of waste into sewer.  
 Do not dispose of together with household waste. Contact licensed waste disposal company.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not burn or use a cutting torch on the empty container.

## 14. TRANSPORT INFORMATION

Not classified for transport. UN number not required.

## 15. REGULATORY INFORMATION

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

#### UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

#### EU Directives

Regulations (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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

#### Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

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### 15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

### 16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

Tariff number: 39073000

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards: On basis of test data/Expert judgement.  
Health hazards: Calculation method  
Environmental hazards: Calculation method

#### Full text of H-statements referred to under sections 2 and 3

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

#### Abbreviations and acronyms

CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.  
STOT: Single Target Organ Toxicity (Section 11).  
TWA: Time-weighted average. (Section 8).  
STEL: Short-term exposure limit. (Section 8).  
DNEL: Derived No Effect Level (Section 8).  
PNEC: Predicted No Effect Concentration (Section 8).  
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).  
vPvB: very Persistent and very Bioaccumulative. (Section 12).  
EC50: Effective Concentration, 50 percent. (Section 12).  
LC50: Lethal Concentration, 50 percent. (Section 11/12).  
LD50: Lethal Dose, 50 percent. (Section 11).

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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