

# PE Polyester Resin - Safety Data Sheet

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name:** PE Polyester Resin  
**Product Code:** PE310/ PE410  
**UFI:** R3CH-AKT3-DG0Y-C404

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

**Use of substance / mixture:** A Chemical anchoring application

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

|           |   |  |
|-----------|---|--|
| Supplier: | T.I Midwood & Co. Ltd<br>TIMCO House<br>Green Lane<br>Wardle<br>Nantwich<br>CW5 6BJ | T.I Midwood & Co. Ltd<br>Aviemore House<br>Hill Street<br>Monahan<br>Ireland |
|-----------|---|--|

Emergency Help Line: 01865 407333 (24 hour service)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** STOT RE 2: H373; Eye Irrit. 2: H319; Repr. 2: H361d; Skin Sens. 1: H317

**Most important adverse effects:** May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. May cause damage to organs ([ears]) through prolonged or repeated exposure ([inhalation (vapour)]).

### 2.2. Label elements

**Label elements:**

**Hazard statements:** H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H361d: Suspected of damaging the unborn child.

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H373: May cause damage to organs ([ears]) through prolonged or repeated exposure ([inhalation (vapour)]).

**Hazard pictograms:** GHS07: Exclamation mark  
GHS08: Health hazard



**Signal words:** Warning

**Precautionary statements:** P202: Do not handle until all safety precautions have been read and understood.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P314: Get medical advice/attention if you feel unwell.

**Haz. ingredients (label):** STYRENE; DIBENZOYL PEROXIDE

## 2.3. Other hazards

**Other hazards:** Not applicable.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### \* Hazardous ingredients:

STYRENE - REACH registered number(s): 01-2119457861-32

| EINECS    | CAS      | PBT / WEL | CLP Classification   | Percent |
|-----------|----------|-----------|--|---------|
| 202-851-5 | 100-42-5 | -         | Flam. Liq. 3: H226; Repr. 2: H361d;<br>Acute Tox. 4: H332; STOT RE 1: H372;<br>Skin Irrit. 2: H315; Eye Irrit. 2: H319 | < 10%   |

DIBENZOYL PEROXIDE. - REACH registered number(s): 01-2119511472-50-XXXX

|           |         |   |   |      |
|-----------|---------|---|---|------|
| 202-327-6 | 94-36-0 | - | Org. Perox. B: H241; Aquatic Acute 1:<br>H400; Aquatic Chronic 1: H410; Eye<br>Irrit. 2: H319; Skin Sens. 1: H317 | 1-3% |
|-----------|---------|---|---|------|

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Consult a doctor.

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**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

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## 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of dust in the air.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

## 7.3. Specific end use(s)

**Specific end use(s):** Building and construction work (SU19).

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

#### STYRENE

**Workplace exposure limits:**

**Respirable dust:**

| State | 8 hour TWA            | 15 min. STEL           | 8 hour TWA | 15 min. STEL |
|-------|-----------------------|------------------------|------------|--------------|
| UK    | 430 mg/m <sup>3</sup> | 1080 mg/m <sup>3</sup> | -          | -            |

#### DIBENZOYL PEROXIDE.

|    |                     |   |   |   |
|----|---------------------|---|---|---|
| UK | 5 mg/m <sup>3</sup> | - | - | - |
|----|---------------------|---|---|---|

### DNEL/PNEC Values

**Hazardous ingredients:**

#### DIBENZOYL PEROXIDE.

| Type | Exposure                   | Value                 | Population         | Effect   |
|------|----------------------------|-----------------------|--------------------|----------|
| DNEL | Inhalation (repeated dose) | 39 mg/m <sup>3</sup>  | Workers            | Systemic |
| DNEL | Dermal (repeated dose)     | 13.3 mg/kg bw/day     | Workers            | Systemic |
| DNEL | Dermal                     | 34 µg/cm <sup>2</sup> | Workers            | Local    |
| DNEL | Oral (repeated dose)       | 2 mg/kg bw/day        | General Population | Systemic |

### 8.2. Exposure controls

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

**Respiratory protection:** \* Breathing protection is required in inadequately ventilated places. Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** \* Protective gloves. Wear solvent proof gloves. Nitrile gloves. Rubber gloves. EN 374  
Recommended thickness of material >0.4 mm. Breakthrough time of the glove material > 8 hours. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Ensure all engineering measures mentioned in section 7 of SDS are in place.

## Section 9: Physical and chemical properties

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

**State:** Paste

**Colour:** Various

**Odour:** Characteristic odour

**Solubility in water:** Insoluble

**Relative density:** 1.67

**VOC g/l:** 2.74

### 9.2. Other information

**Other information:** Solid suspension - classified as non-flammable according to results from Test N.1 test method for readily combustible solids.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

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## STYRENE

|     |     |      |      |       |
|-----|-----|------|------|-------|
| IVN | MUS | LD50 | 90   | mg/kg |
| ORL | MUS | LD50 | 316  | mg/kg |
| ORL | RAT | LD50 | 2650 | mg/kg |

## DIBENZOYL PEROXIDE.

|         |     |      |      |       |
|---------|-----|------|------|-------|
| ORL     | RAT | LD50 | 2000 | mg/kg |
| VAPOURS | RAT | LD50 | 24.3 | mg/kg |

### Relevant hazards for product:

| Hazard                         | Route | Basis                 |
|--------------------------------|-------|-----------------------|
| Serious eye damage/irritation  | OPT   | Hazardous: calculated |
| Respiratory/skin sensitisation | DRM   | Hazardous: calculated |
| Reproductive toxicity          | --    | Hazardous: calculated |
| STOT-repeated exposure         | -     | Hazardous: calculated |

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other information:** Not applicable.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values: Catalyst Comp B

| Species       | Test      | Value | Units |
|---------------|-----------|-------|-------|
| FISH          | 48H EC50  | >7    | mg/l  |
| Daphnia magna | 48H EC50  | >10   | mg/l  |
| FISH          | 96H LC50  | >100  | mg/l  |
| ALGAE         | 72H ErC50 | >60   | mg/l  |

#### Hazardous ingredients:

##### DIBENZOYL PEROXIDE.

|       |           |        |      |
|-------|-----------|--------|------|
| ALGAE | 72H ErC50 | 0.0711 | mg/l |
|-------|-----------|--------|------|

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|                                     |          |        |      |
|-------------------------------------|----------|--------|------|
| Daphnia magna                       | 48H EC50 | 0.110  | mg/l |
| RAINBOW TROUT (Oncorhynchus mykiss) | 96H LC50 | 0.0602 | mg/l |

## 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

## 12.4. Mobility in soil

**Mobility:** Insoluble in water. Heavier than water.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 08 04 09

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Active Oxygen Content of Catalyst Component 0.99%

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**Phrases used in s.2 and s.3:** H226: Flammable liquid and vapour.  
H241: Heating may cause a fire or explosion.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H361d: Suspected of damaging the unborn child.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H373: May cause damage to organs ([ears]) through prolonged or repeated exposure ([inhalation (vapour)]).  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**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.