

# ALPHA

## SAFETY DATA SHEET DP 2246

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

#### 1.1. Product identifier

Product name DP 2246

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

Identified uses One part moisture curing polyurethane sealant

Uses advised against No specific uses advised against are identified.

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

Supplier Alpha Adhesives & Sealants Ltd  
Llewellyn Close  
Sandy Lane Ind. Estate  
Stourport-on-Severn  
Worcs. UK  
DY13 9RH  
Tel: 0044(0)1299 828626  
Fax: 0044(0)1299 828666  
Email: sales@alpha-adhesives.co.uk

#### 1.4. Emergency telephone number

Emergency telephone 44 (0) 1299 828626 (Available 08.30 to 17.00)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

**Human health** The product contains small amounts of organic solvents. Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system.

**Environmental** The product is not expected to be hazardous to the environment.

**Physicochemical** Not considered to be a significant hazard due to the small quantities used.

#### 2.2. Label elements

**Hazard statements** NC Not Classified

**Supplemental label information** EUH204 Contains isocyanates. May produce an allergic reaction.

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

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## 3.2. Mixtures

|   |  |   |
|---|--|---|
| <b>XYLENE</b> <span style="float: right;"><b>1-5%</b></span>  |  |   |
| CAS number: 1330-20-7   | EC number: 215-535-7   | REACH registration number: 01-2119488216-32 |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Acute Tox. 4 - H312<br>Acute Tox. 4 - H332<br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H335<br>STOT RE 2 - H373<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 3 - H412 | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>R10 Xn;R20/21 Xi;R38 |   |
| <b>Hydrocarbons,C11-C14.n-alkanes,isoalkanes,cyclics&lt;2%aromatics</b> <span style="float: right;"><b>1-5%</b></span>  |  |   |
| CAS number: —   | EC number: 926-141-6   |   |
| <b>Classification</b><br>Asp. Tox. 1 - H304   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xn;R65. R66.         |   |
| <b>CALCIUM OXIDE</b> <span style="float: right;"><b>1-5%</b></span>   |  |   |
| CAS number: 1305-78-8   | EC number: 215-138-9   | REACH registration number: 01-2119475325-36 |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>STOT SE 3 - H335  | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xi;R41,R37/38.       |   |
| <b>Diiron Trioxide</b> <span style="float: right;"><b>1-5%</b></span>   |  |   |
| CAS number: 1309-37-1   | EC number: 215-168-2   | REACH registration number: 01-2119457614-35 |
| <b>Classification</b><br>Not Classified   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>-                    |   |
| <b>ETHYLBENZENE</b> <span style="float: right;"><b>1-5%</b></span>  |  |   |
| CAS number: 100-41-4  | EC number: 202-849-4   | REACH registration number: 01-2119489370-35 |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Acute Tox. 4 - H332<br>STOT RE 2 - H373<br>Asp. Tox. 1 - H304   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>F;R11 Xn;R20         |   |

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

**Composition comments** The product contains a small amount of sensitising substance.,The product contains organic solvents.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Inhalation** Due to the small packaging, the risk of inhalation is minimal. Remove affected person from source of contamination.

**Ingestion** Get medical attention.

**Skin contact** Wash skin thoroughly with soap and water.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Vapours may cause drowsiness and dizziness.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** May cause temporary eye irritation.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

**Specific treatments** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen cyanide (HCN). Nitrous gases (NO<sub>x</sub>). Isocyanates.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Isocyanates.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** In case of fire: Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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**Special protective equipment for firefighters** Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

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

**Personal precautions** Avoid inhalation of vapours and contact with skin and eyes.

**For non-emergency personnel** Wear protective clothing as described in Section 8 of this safety data sheet.

**For emergency responders** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Collect and place in suitable waste disposal containers and seal securely.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Keep away from heat, sparks and open flame.

**Advice on general occupational hygiene** Persons susceptible to allergic reactions should not handle this product. When using do not eat, drink or smoke.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at temperatures between 5°C and 25°C.

**Storage class** Miscellaneous hazardous material storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**Usage description** Sealant.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **XYLENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

##### **CALCIUM OXIDE**

Long-term exposure limit (8-hour TWA): WEL 2 mg/m<sup>3</sup>

##### **Diiron Trioxide**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> resp.dust

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

##### **ETHYLBENZENE**

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Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup>

Sk

**Calcium Dihydroxide**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

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Long-term exposure limit (8-hour TWA): WEL 3,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 7 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

**XYLENE (CAS: 1330-20-7)**

|                            |  |
|----------------------------|--|
| <b>Ingredient comments</b> | WEL = Workplace Exposure Limits  |
| <b>DNEL</b>                | Consumer - Dermal; Long term systemic effects: 108 mg/kg/day<br>Industry - Dermal; Long term systemic effects: 180 mg/kg/day<br>Consumer - Inhalation; Short term local effects: 174 mg/m <sup>3</sup><br>Consumer - Inhalation; Short term systemic effects: 174 mg/m <sup>3</sup><br>Industry - Inhalation; Short term systemic effects: 289 mg/m <sup>3</sup><br>Industry - Inhalation; Short term local effects: 289 mg/m <sup>3</sup><br>Consumer - Inhalation; Long term systemic effects: 14.8 mg/m <sup>3</sup><br>Industry - Inhalation; Long term systemic effects: 77 mg/m <sup>3</sup> |
| <b>PNEC</b>                | - Fresh water; 0.327 mg/l<br>- Soil; 2.31 mg/kg  |

**ETHYLBENZENE (CAS: 100-41-4)**

|             |  |
|-------------|--|
| <b>DNEL</b> | Workers - Inhalation; Short term local effects: 293 mg/m <sup>3</sup>                                |
| <b>PNEC</b> | - Marine water; 0.01 mg/l<br>- Intermittent release; 0.1 mg/l<br>- Sediment (Marinewater); 1.37 mg/l |

**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation.

**Eye/face protection**

Wear chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl alcohol (PVA). To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 6 hours.

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|  |   |
|--|---|
| <b>Other skin and body protection</b>  | Avoid contact with skin. Wear appropriate clothing to prevent skin contamination.   |
| <b>Hygiene measures</b>                | Wash hands at the end of each work shift and before eating, smoking and using the toilet. Do not smoke in work area.  |
| <b>Respiratory protection</b>          | If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. |
| <b>Thermal hazards</b>                 | Contact with hot product can cause serious thermal burns.   |
| <b>Environmental exposure controls</b> | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.   |

**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

|   |   |
|---|---|
| <b>Appearance</b>                                   | Paste.  |
| <b>Colour</b>                                       | Grey. White. Black.   |
| <b>Odour</b>  | Mild.   |
| <b>Odour threshold</b>                              | Not relevant.   |
| <b>pH</b>   | pH (concentrated solution):   |
| <b>Melting point</b>                                | Not available.  |
| <b>Initial boiling point and range</b>              | 137°C @   |
| <b>Flash point</b>                                  | 40-55°C CC (Closed cup).  |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Evaporation factor</b>                           | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not available.  |
| <b>Upper/lower flammability or explosive limits</b> | Upper flammable/explosive limit: 8 Lower flammable/explosive limit: 0.6 |
| <b>Other flammability</b>                           | Not available.  |
| <b>Vapour pressure</b>                              | Not available.  |
| <b>Vapour density</b>                               | Not available.  |
| <b>Relative density</b>                             | 1.17 @ °C   |
| <b>Bulk density</b>                                 | Not applicable.   |
| <b>Solubility(ies)</b>                              | Insoluble in water.   |
| <b>Partition coefficient</b>                        | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition Temperature</b>                    | Not determined.   |
| <b>Viscosity</b>                                    | cP @ 20°C   |
| <b>Explosive properties</b>                         | No information available.   |
| <b>Explosive under the influence of a flame</b>     | No  |

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|                             |  |
|-----------------------------|--|
| <b>Oxidising properties</b> | Not applicable.  |
| <b>Comments</b>             | Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures. |

**9.2. Other information**

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Other information</b>         | No information required. |
| <b>Refractive index</b>          | Not relevant.            |
| <b>Particle size</b>             | Not available.           |
| <b>Molecular weight</b>          | Not available.           |
| <b>Volatility</b>                | Not applicable.          |
| <b>Saturation concentration</b>  | Not available.           |
| <b>Critical temperature</b>      | Not available.           |
| <b>Volatile organic compound</b> | Not relevant.            |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---|

**10.2. Chemical stability**

|                  |   |
|------------------|---|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---|

**10.3. Possibility of hazardous reactions**

|   |   |
|---|---|
| <b>Possibility of hazardous reactions</b> | The following materials may react with the product: Alcohols. Amines. |
|---|---|

**10.4. Conditions to avoid**

|                            |  |
|----------------------------|--|
| <b>Conditions to avoid</b> | Containers can burst violently or explode when heated, due to excessive pressure build-up. |
|----------------------------|--|

**10.5. Incompatible materials**

|                           |   |
|---------------------------|---|
| <b>Materials to avoid</b> | Water-reactive materials. Acid-reactive materials. Alcohols, glycols. Amines. |
|---------------------------|---|

**10.6. Hazardous decomposition products**

|   |   |
|---|---|
| <b>Hazardous decomposition products</b> | Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Oxides of carbon. Hydrogen cyanide (HCN). |
|---|---|

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

|                              |                   |
|------------------------------|-------------------|
| <b>Toxicological effects</b> | No data recorded. |
|------------------------------|-------------------|

**Acute toxicity - oral**

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Notes (oral LD<sub>50</sub>)</b> | Not determined. |
|-------------------------------------|-----------------|

**Acute toxicity - dermal**

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Notes (dermal LD<sub>50</sub>)</b> | Not determined. |
|---------------------------------------|-----------------|

|                           |          |
|---------------------------|----------|
| <b>ATE dermal (mg/kg)</b> | 27,500.0 |
|---------------------------|----------|

**Acute toxicity - inhalation**

|   |                 |
|---|-----------------|
| <b>Notes (inhalation LC<sub>50</sub>)</b> | Not determined. |
|---|-----------------|

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|  |  |
|--|--|
| <b>ATE inhalation (gases ppm)</b>                                | 285,714.29   |
| <b>ATE inhalation (vapours mg/l)</b>                             | 250.0  |
| <b><u>Skin corrosion/irritation</u></b>                          |  |
| <b>Animal data</b>   | Not determined.  |
| <b>Human skin model test</b>                                     | Not determined.  |
| <b>Extreme pH</b>  | Not applicable.  |
| <b><u>Serious eye damage/irritation</u></b>                      |  |
| <b>Serious eye damage/irritation</b>                             | Based on available data the classification criteria are not met.   |
| <b><u>Respiratory sensitisation</u></b>                          |  |
| <b>Respiratory sensitisation</b>                                 | Based on available data the classification criteria are not met.   |
| <b><u>Skin sensitisation</u></b>                                 |  |
| <b>Skin sensitisation</b>  | Based on available data the classification criteria are not met.   |
| <b><u>Germ cell mutagenicity</u></b>                             |  |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.   |
| <b>Genotoxicity - in vivo</b>                                    | Based on available data the classification criteria are not met.   |
| <b><u>Carcinogenicity</u></b>                                    |  |
| <b>Carcinogenicity</b>   | Not applicable.  |
| <b><u>Reproductive toxicity</u></b>                              |  |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.   |
| <b>Reproductive toxicity - development</b>                       | Does not contain any substances known to be toxic to reproduction.   |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |  |
| <b>STOT - single exposure</b>                                    | Based on available data the classification criteria are not met.   |
| <b>Target organs</b>   | Not relevant.  |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |  |
| <b>STOT - repeated exposure</b>                                  | Based on available data the classification criteria are not met.   |
| <b>Target organs</b>   | Not relevant.  |
| <b><u>Aspiration hazard</u></b>                                  |  |
| <b>Aspiration hazard</b>   | Not relevant.  |
| <b><u>General information</u></b>                                |  |
| <b>General information</b>                                       | The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. |
| <b>Inhalation</b>  | No specific health hazards known.  |
| <b>Ingestion</b>   | No specific health hazards known.  |
| <b>Skin contact</b>  | Skin irritation should not occur when used as recommended.   |
| <b>Eye contact</b>   | May cause temporary eye irritation.  |
| <b>Acute and chronic health hazards</b>                          | No specific health hazards known.  |
| <b>Route of entry</b>  | Skin and/or eye contact  |



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**Target organs** Not relevant.

**Medical symptoms** No specific symptoms known.

**Toxicological information on ingredients.****XYLENE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,300.0

**Species** Rat

**ATE oral (mg/kg)** 4,300.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 1,100.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 10.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 10.0

**Carcinogenicity**

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

**CALCIUM OXIDE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,050.0

**Species** Rat

**ATE oral (mg/kg)** 2,050.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,505.0

**Species** Rabbit

**ATE dermal (mg/kg)** 2,505.0

**ETHYLBENZENE****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,500.0

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|   |  |
|---|--|
| <b>Species</b>  | Rat  |
| <b>ATE oral (mg/kg)</b>                                       | 3,500.0  |
| <b><u>Acute toxicity - dermal</u></b>                         |  |
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>          | 4,100.0  |
| <b>Species</b>  | Rabbit   |
| <b>ATE dermal (mg/kg)</b>                                     | 4,100.0  |
| <b><u>Acute toxicity - inhalation</u></b>                     |  |
| <b>Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)</b> | 4,000.0  |
| <b>Species</b>  | Rat  |
| <b>ATE inhalation (gases ppm)</b>                             | 4,000.0  |
| <b><u>Carcinogenicity</u></b>                                 |  |
| <b>IARC carcinogenicity</b>                                   | IARC Group 2B Possibly carcinogenic to humans. |

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|  |         |
|--|---------|
| <b><u>Acute toxicity - oral</u></b>                |         |
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 8,000.0 |
| <b>Species</b>                                     | Rat     |

**SECTION 12: Ecological Information**

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

**12.1. Toxicity**

**Toxicity** Not considered toxic to fish.

**Acute toxicity - fish** Not determined.

**Acute toxicity - aquatic invertebrates** Not determined.

**Acute toxicity - aquatic plants** Not determined.

**Acute toxicity - microorganisms** Not determined.

**Acute toxicity - terrestrial** Not determined.

**Chronic toxicity - fish early life stage** Not determined.

**Short term toxicity - embryo and sac fry stages** Not determined.

**Chronic toxicity - aquatic invertebrates** Not determined.

**DP 2246****Ecological information on ingredients.****XYLENE**

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LC50, 96 hours: 8.9 - 16.4 mg/l, Pimephales promelas (Fat-head Minnow)<br>EC50, 96 hours: 86 mg/l, Leuciscus idus (Golden orfe) |
| <b>Acute toxicity - aquatic invertebrates</b> | EC50, 48 hours: 3.2- 9.5 mg/l, Daphnia magna  |
| <b>Acute toxicity - aquatic plants</b>        | EC50, 48 hours: 1 - 10 mg/l, Scenedesmus subspicatus  |
| <b>Acute toxicity - microorganisms</b>        | , : ,   |

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|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LC50, 48 hours: 44 mg/l, Leuciscus idus (Golden orfe) |
| <b>Acute toxicity - aquatic invertebrates</b> | EC50, 48 hours: 75 mg/l, Daphnia magna                |
| <b>Acute toxicity - aquatic plants</b>        | , : ,   |
| <b>Acute toxicity - microorganisms</b>        | , : ,   |

**CARBON BLACK**

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LC50, 96 hours, 96 hours: > 1000 mg/l, Brachydanio rerio (Zebra Fish)   |
| <b>Acute toxicity - aquatic invertebrates</b> | EC50, 48 hours, 48 hours: > 5,600 mg/l, Daphnia magna   |
| <b>Acute toxicity - aquatic plants</b>        | EC50, 72 hours, 72 hours: > 10,000 mg/l, Scenedesmus subspicatus<br>NOEC, >: > 10,000 mg/l, Scenedesmus subspicatus |
| <b>Acute toxicity - microorganisms</b>        | EC0, 3 hours, 3 hours: > 800 mg/l, Activated sludge   |

**12.2. Persistence and degradability**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and degradability</b> | Not determined.           |
| <b>Phototransformation</b>           | Not determined.           |
| <b>Stability (hydrolysis)</b>        | Not determined.           |
| <b>Biodegradation</b>                | Inherently biodegradable. |
| <b>Biological oxygen demand</b>      | Not determined.           |
| <b>Chemical oxygen demand</b>        | Not determined.           |

**Ecological information on ingredients.****XYLENE**

|                       |   |
|-----------------------|---|
| <b>Biodegradation</b> | Air. - Degradation (%) 60: > 28 days<br>readily biodegradable |
|-----------------------|---|

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**Biodegradation** water - Degradation (%) 70 - 80: 28 days  
readily biodegradable

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** Not determined.

**Partition coefficient** Not available.

**12.4. Mobility in soil**

**Mobility** Product is insoluble in water

**Adsorption/desorption coefficient** Not determined.

**Henry's law constant** Not determined.

**Surface tension** Not determined.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Ecological information on ingredients.****XYLENE**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**Other adverse effects** None known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** 08 04 09 MH

**SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

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

No transport warning sign required.

**DP 2246****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**

|  |  |
|--|--|
| <b>National regulations</b>                            | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).<br>Rivers (Prevention of Pollution) Act 1961.<br>Control of Substances Hazardous to Health Regulations 2002 (as amended).  |
| <b>EU legislation</b>                                  | 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).<br>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). |
| <b>Guidance</b>  | CHIP for everyone HSG228.<br>Approved Classification and Labelling Guide (Sixth edition) L131.<br>Isocyanates: Health hazards and precautionary measures EH16.   |
| <b>Authorisations (Title VII Regulation 1907/2006)</b> | No specific authorisations are known for this product.   |
| <b>Restrictions (Title VIII Regulation 1907/2006)</b>  | No specific restrictions on use are known for this product.  |

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**DP 2246****Abbreviations and acronyms used in the safety data sheet**

ATE: Acute Toxicity Estimate.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 GHS: Globally Harmonized System.  
 IATA: International Air Transport Association.  
 ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 SVHC: Substances of Very High Concern.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 IARC: International Agency for Research on Cancer.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 BCF: Bioconcentration Factor.  
 BOD: Biochemical Oxygen Demand.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 LOEC: Lowest Observed Effect Concentration.  
 DMEL: Derived Minimal Effect Level.  
 UN: United Nations.  
 IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

**Key literature references and sources for data**

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date**

07/06/2016

**Revision**

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**Risk phrases in full**

Not classified.  
 R10 Flammable.  
 R11 Highly flammable.  
 R20 Harmful by inhalation.  
 R20/21 Harmful by inhalation and in contact with skin.  
 R37/38 Irritating to respiratory system and skin.  
 R38 Irritating to skin.  
 R41 Risk of serious damage to eyes.  
 R65 Harmful: may cause lung damage if swallowed.  
 R66 Repeated exposure may cause skin dryness or cracking.

## DP 2246

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

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.