



# Safety Data Sheet Polyurethane (Pink PU) Deck Adhesive 5L

Revision Date: 08/02/2018

## Section 1: Identification of the Product and Company Identification

### 1.1. Product Identifier

**Product Name:** RubberBond Polyurethane (Pink PU) Deck Adhesive 5L  
**Product Code:** 521100

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

**Identified uses** Adhesive  
**Uses advised against** No specific uses advised against are identified.

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

**Suppliers:** Flex-R  
Sandswood House  
Hillbottom Road  
Sands Industrial Estate  
High Wycombe  
Buckinghamshire  
HP12 4HJ  
Tel: 01494 448792 Fax: 01494 858433 Email: [enq@rubberbond.co.uk](mailto:enq@rubberbond.co.uk)

### 1.4. Emergency telephone number

**Emergency telephone** 01494 448792 (NOT 24HRS Monday-Thursday 08.30 – 17.30  
Friday 08.30 – 16.30)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317  
Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373  
**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. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2. Label elements

**Pictogram**

Exclusive British Isles Distributors for Carlisle-SynTec and RubberBond EPDM single ply roofing materials.

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**Signal word**

Danger

**Hazard statements**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

EUH204 Contains isocyanates. May produce an allergic reaction.  
P260 Do not breathe vapour/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P281 Use personal protective equipment as required.  
P284 [In case of inadequate ventilation] wear respiratory 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.  
P313 Get medical advice/ attention.  
P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

DICHLOROMETHANE, DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

## 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

|  |               |
|--|---------------|
| <b>DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)</b> | <b>10-30%</b> |
|--|---------------|

CAS number: 9016-87-9

EC number: -

REACH registration number: 01-2119457024-46-0006

#### Classification

Acute Tox. 4 - H332  
Skin Irrit. 2 - H315  
Eye Irrit. 2 - H319  
Resp. Sens. 1 - H334  
Skin Sens. 1 - H317  
Carc. 2 - H351  
STOT SE 3 - H335  
STOT RE 2 - H373

|                        |               |
|------------------------|---------------|
| <b>DICHLOROMETHANE</b> | <b>10-30%</b> |
|------------------------|---------------|

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CAS number: 75-09-2

EC number: 200-838-9

REACH registration number: 01-  
2119480404-41-0000

## Classification

Acute Tox. 4 - H302

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Carc. 2 - H351

STOT SE 3 - H336

The Full Text for all Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from source of contamination.

#### Inhalation

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

#### Ingestion

DO NOT induce vomiting. Get medical attention immediately.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

#### Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

### 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

Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

Prolonged skin contact may cause redness and irritation.

#### Eye contact

Severe irritation, burning and tearing.

### 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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**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 from the substance or mixture

**Specific hazards** The product is non-combustible. Irritating gases or vapours. Not known.  
**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

## 5.3. Advice for firefighters

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.  
**Special protective equipment for firefighters** Wear chemical protective suit. 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** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Usage precautions** Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation.

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

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**Storage precautions** Store in closed original container at temperatures between 5°C and 25°C.  
**Storage class** Chemical storage.

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Long-term exposure limit (8-hour TWA): WEL 0.07 mg/m<sup>3</sup>  
Short-term exposure limit (15-minute): WEL 0.02 mg/m<sup>3</sup>

#### DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m<sup>3</sup>  
Short-term exposure limit (15-minute): WEL 300 ppm 1060 mg/m<sup>3</sup>  
Sk

**Ingredient comments** WEL = Workplace Exposure Limit  
Sk = Can be absorbed through the skin.

#### DICHLOROMETHANE (CAS: 75-09-2)

**Ingredient comments** WEL = Workplace Exposure Limits  
**DNEL** Consumer - Dermal; Short term systemic effects: 353 mg/m<sup>3</sup>  
Workers - Dermal; Short term systemic effects: 706 mg/m<sup>3</sup>  
**PNEC**  
- Fresh water; 0.54 mg/l  
- Sediment (Freshwater); 4.47 mg/kg  
- Intermittent release; 0.27 mg/l  
- Sediment (Marinewater); 1.61 mg/kg  
- Marine water; 0.194 mg/l  
- STP; 26 mg/l  
- Soil; 0.583 mg/kg

#### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES) (CAS: 9016-87-9)

**Ingredient comments** WEL = Workplace Exposure Limits  
**DNEL** Workers - Dermal; Short term systemic effects: 50 mg/kg  
Workers - Inhalation; Short term systemic effects: 0.1 mg/m<sup>3</sup>  
Workers - Dermal; Short term local effects: 28.7 mg/cm<sup>2</sup>  
Workers - Inhalation; Short term local effects: 0.1 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 0.05 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 0.05 mg/m<sup>3</sup>  
General population - Dermal; Short term systemic effects: 25 mg/kg  
General population - Inhalation; Short term systemic effects: 0.05 mg/m<sup>3</sup>  
General population - Oral; Short term systemic effects: 20 mg/kg

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General population - Dermal; Short term local effects: 17.2 mg/cm<sup>2</sup>  
 General population - Inhalation; Short term local effects: 0.05 mg/m<sup>3</sup>  
 General population - Inhalation; Long term systemic effects: 0.025 mg/m<sup>3</sup>  
 General population - Inhalation; Long term local effects: 0.025 mg/m<sup>3</sup>

**PNEC**

- Fresh water; 1 mg/l
- Marine water; 0.1 mg/l
- Soil; 1 mg/kg dry weight
- STP; 1 mg/l

**2,2'DIMORPHOLINYLDIETHYL ETHER (CAS: 6425-39-4)**

**Ingredient comments** WEL = Workplace Exposure Limits

**DNEL**

- Workers - Inhalation; Long term systemic effects: 7.28 mg/m<sup>3</sup>
- Workers - Dermal; Long term systemic effects: 1 mg/kg bw/day
- Consumer - Inhalation; Long term systemic effects: 1.8 mg/m<sup>3</sup>
- Consumer - Dermal; Long term systemic effects: 0.5 mg/kg bw/day
- Consumer - Oral; Long term systemic effects: 0.5 mg/kg bw/day

**PNEC**

- Fresh water; 0.1 mg/l
- Marine water; 0.01 mg/l
- Intermittent release; 1 mg/l
- Sediment (Freshwater); 8.2 mg/kg
- Sediment (Marinewater); 0.82 mg/kg
- STP; 100 mg/l
- Soil; 1.58 mg/kg

**8.2. Exposure controls**

**Protective equipment**



**Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

Wear chemical splash goggles.

**Hand protection**

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber.

**Other skin and body protection**

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

**Hygiene measures**

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.

**Environmental exposure controls**

Keep container tightly sealed when not in use.



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## SECTION 9: Physical and Chemical Properties

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

|   |   |
|---|---|
| <b>Appearance</b>                                   | Coloured liquid   |
| <b>Colour</b>                                       | Pink  |
| <b>Odour</b>  | Chlorinated hydrocarbons.                                   |
| <b>Odour threshold</b>                              | Not available.  |
| <b>pH</b>   | Not available.  |
| <b>Melting point</b>                                | Not available.  |
| <b>Initial boiling point and range</b>              | 39-40°C @   |
| <b>Flash point</b>                                  | Not applicable.   |
| <b>Evaporation rate</b>                             | Fast  |
| <b>Evaporation factor</b>                           | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not available.  |
| <b>Upper/lower flammability or explosive limits</b> | Not applicable.   |
| <b>Other flammability</b>                           | Not available.  |
| <b>Vapour pressure</b>                              | Not available.  |
| <b>Vapour density</b>                               | Not available.  |
| <b>Relative density</b>                             | 1.10 @ 20°C   |
| <b>Bulk density</b>                                 | Not available.  |
| <b>Solubility(ies)</b>                              | Insoluble in water. Hardens in contact with water.          |
| <b>Partition coefficient</b>                        | Not available.  |
| <b>Auto-ignition temperature</b>                    | Not available.  |
| <b>Decomposition Temperature</b>                    | Not available.  |
| <b>Viscosity</b>                                    | Kinematic viscosity > 20.5 mm <sup>2</sup> /s.              |
| <b>Explosive properties</b>                         | Not available.  |
| <b>Explosive under the influence of a flame</b>     | Not considered to be explosive.                             |
| <b>Oxidising properties</b>                         | Not available.  |
| <b>Comments</b>                                     | Information given is applicable to the product as supplied. |

### 9.2. Other information

|                          |                          |
|--------------------------|--------------------------|
| <b>Other information</b> | No information required. |
| <b>Refractive index</b>  | Not available.           |
| <b>Particle size</b>     | Not available.           |

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|                                 |                |
|---------------------------------|----------------|
| <b>Molecular weight</b>         | Not available. |
| <b>Volatility</b>               | Not available. |
| <b>Saturation concentration</b> | Not available. |
| <b>Critical temperature</b>     | Not available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | The product will harden into a solid mass in contact with water and moisture. |
|-------------------|---|

### 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> | Not applicable. May polymerise. |
|---|---------------------------------|

### 10.4. Conditions to avoid

|                            |                           |
|----------------------------|---------------------------|
| <b>Conditions to avoid</b> | Avoid contact with water. |
|----------------------------|---------------------------|

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

|   |  |
|---|--|
| <b>Hazardous decomposition products</b> | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen. |
|---|--|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological information on ingredients.

#### Acute toxicity - oral

|  |          |
|--|----------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 10,000.0 |
|--|----------|

|                |     |
|----------------|-----|
| <b>Species</b> | Rat |
|----------------|-----|

|                         |          |
|-------------------------|----------|
| <b>ATE oral (mg/kg)</b> | 9,090.91 |
|-------------------------|----------|

#### Acute toxicity - dermal

|  |          |
|--|----------|
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b> | 10,000.0 |
|--|----------|

|                |        |
|----------------|--------|
| <b>Species</b> | Rabbit |
|----------------|--------|

#### Acute toxicity - inhalation

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|  |  |
|--|--|
| <b>Species</b>   | Rat  |
| <b>ATE inhalation (vapours mg/l)</b>                             | 50.0   |
| <b>ATE inhalation (dusts/mists mg/l)</b>                         | 6.82   |
| <b><u>Skin corrosion/irritation</u></b>                          |  |
| <b>Animal data</b>   | Irritating.  |
| <b><u>Serious eye damage/irritation</u></b>                      |  |
| <b>Serious eye damage/irritation</b>                             | Moderately irritating.   |
| <b><u>Respiratory sensitisation</u></b>                          |  |
| <b>Respiratory sensitisation</b>                                 | Sensitising.   |
| <b><u>Carcinogenicity</u></b>                                    |  |
| <b>Carcinogenicity</b>   | Suspected carcinogen based on limited evidence.  |
| <b>Target organ for carcinogenicity</b>                          | No specific target organs known.   |
| <b><u>Reproductive toxicity</u></b>                              |  |
| <b>Reproductive toxicity - development</b>                       | This substance has no evidence of toxicity to reproduction.  |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |  |
| <b>STOT - repeated exposure</b>                                  | Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.  |
| <b><u>Aspiration hazard</u></b>                                  |  |
| <b>Aspiration hazard</b>   | Not anticipated to present an aspiration hazard, based on chemical structure.  |
| <b>Inhalation</b>  | Irritating to respiratory system. May cause sensitisation by inhalation.   |
| <b>Ingestion</b>   | May cause stomach pain or vomiting.  |
| <b>Skin contact</b>  | Irritating to skin. May cause sensitisation by skin contact.   |
| <b>Eye contact</b>   | Irritation of eyes and mucous membranes.   |
| <b>Acute and chronic health hazards</b>                          | May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy. |
| <b>Route of entry</b>  | Inhalation Skin and/or eye contact   |
| <b>Medical symptoms</b>  | Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.   |
| <b>Medical considerations</b>                                    | Chronic respiratory and obstructive airway diseases.   |

## **Toxicological information on ingredients.**

### **DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)**

#### **Acute toxicity - oral**

|  |          |
|--|----------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 10,000.0 |
| <b>Species</b>                                     | Rat      |

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**ATE oral (mg/kg)** 10,000.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 9,400.0

**Species** Rabbit

**ATE dermal (mg/kg)** 9,400.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 0.493

**Species** Rat

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 0.31

**Species** Rat

**ATE inhalation (vapours mg/l)** 11.0

**ATE inhalation (dusts/mists mg/l)** 1.5

**Skin corrosion/irritation**

**Animal data** Irritating.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Moderately irritating.

**Respiratory sensitisation**

**Respiratory sensitisation** Sensitising.

**Carcinogenicity**

**Carcinogenicity** Suspected carcinogen based on limited evidence.

**Target organ for carcinogenicity** No specific target organs known.

**Reproductive toxicity**

**Reproductive toxicity - development** This substance has no evidence of toxicity to reproduction.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

**Aspiration hazard**

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

**Inhalation** Irritating to respiratory system. May cause sensitisation by inhalation.

**Ingestion** May cause stomach pain or vomiting.

**Skin contact** Irritating to skin. May cause sensitisation by skin contact.

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## Eye contact

Irritation of eyes and mucous membranes.

## Acute and chronic health hazards

May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

## Route of entry

Inhalation Skin and/or eye contact

## Medical symptoms

Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

## Medical considerations

Chronic respiratory and obstructive airway diseases.

## DICHLOROMETHANE

### Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 2,000.0

### Acute toxicity - dermal

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

Species Rat

### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 86.0

Species Rat

ATE inhalation (vapours mg/l) 86.0

### Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin. REACH dossier information.

### Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

### Respiratory sensitisation

Respiratory sensitisation Not sensitising.

### Carcinogenicity

IARC Carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

### Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies.

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## 2,2'DIMORPHOLINYLDIETHYL ETHER

### Acute toxicity - oral

|  |                           |
|--|---------------------------|
| <u>Acute toxicity oral (LD<sub>50</sub> mg/kg)</u> | 2,025.0                   |
| Species  | Rat                       |
| Notes (oral LD <sub>50</sub> )                     | No information available. |

### Acute toxicity - dermal

|  |                           |
|--|---------------------------|
| <u>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</u> | 3,038.0                   |
| Species  | Rabbit                    |
| Notes (dermal LD <sub>50</sub> )                     | No information available. |

### Acute toxicity - inhalation

|                                      |                           |
|--------------------------------------|---------------------------|
| Notes (inhalation LC <sub>50</sub> ) | No information available. |
|--------------------------------------|---------------------------|

### Skin corrosion/irritation

|                           |                           |
|---------------------------|---------------------------|
| Skin corrosion/irritation | No information available. |
|---------------------------|---------------------------|

### Serious eye damage/irritation

|                               |                           |
|-------------------------------|---------------------------|
| Serious eye damage/irritation | No information available. |
|-------------------------------|---------------------------|

### Respiratory sensitisation

|                           |                           |
|---------------------------|---------------------------|
| Respiratory sensitisation | No information available. |
|---------------------------|---------------------------|

### Carcinogenicity

|                      |   |
|----------------------|---|
| IARC carcinogenicity | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Inhalation           | May be harmful if inhaled. Spray/mists may cause respiratory tract irritation.  |
| Ingestion            | May be harmful if swallowed.  |
| Skin contact         | May be absorbed through the skin. May be harmful in contact with skin. May cause skin irritation.   |
| Eye contact          | May cause eye irritation.   |

## SECTION 12: Ecological Information

### Ecological information on ingredients.

|             |   |
|-------------|---|
| Ecotoxicity | The product is not expected to be hazardous to the environment. |
|-------------|---|

### **DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)**

|             |   |
|-------------|---|
| Ecotoxicity | The product is not expected to be hazardous to the environment. |
|-------------|---|

### 12.1. Toxicity

### Ecological information on ingredients.

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|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: > 1000 mg/l, Freshwater fish         |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: >500 mg/l, Daphnia magna             |
| <b>Acute toxicity - aquatic plants</b>        | EC <sub>50</sub> , 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus |

## Ecological information on ingredients.

### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                    | LC <sub>50</sub> , 96 hours: > 1000 mg/l, Freshwater fish         |
| <b>Acute toxicity - aquatic invertebrates</b>   | EC <sub>50</sub> , 48 hours: >500 mg/l, Daphnia magna             |
| <b>Acute toxicity - aquatic plants</b>          | EC <sub>50</sub> , 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus |
| <b>Acute toxicity - microorganisms</b>          | EC <sub>50</sub> , 3 hours: 100 mg/l, Activated sludge            |
| <b>Chronic toxicity – aquatic invertebrates</b> | NOEC, 21 days: 10 mg/l, Daphnia magna                             |

### DICHLOROMETHANE

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                    | LC <sub>50</sub> , 96 hours: 193 mg/l, Pimephales promelas (Fat-head Minnow)<br>LC <sub>50</sub> , 48 hours: 97 mg/l, Fundulus heteroclitus |
| <b>Acute toxicity - aquatic invertebrates</b>   | EC <sub>50</sub> , 48 hours: 27 mg/l, Daphnia magna<br>LC <sub>50</sub> , 48 hours: 109 mg/l, Palaemonetes pugio                            |
| <b>Acute toxicity - aquatic plants</b>          | NOEC, 192 hours: 550 mg/l, Microcystis aeruginosa - Algae, blue, cyanobacteria  |
| <b>Acute toxicity - microorganisms</b>          | EC <sub>50</sub> , 0.67 hours: 2590 mg/l, Bacteria  |
| <b>Chronic toxicity - fish early life stage</b> | NOEC, 28 days: 83 mg/l, Pimephales promelas (Fat-head Minnow)   |

### 2,2'DIMORPHOLINYLDIETHYL ETHER

|   |   |
|---|---|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 2150 mg/l,               |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: >100 mg/l, Daphnia magna |
| <b>Acute toxicity - microorganisms</b>        | EC <sub>50</sub> , 3 hours: >1000 mg/l, Bacteria      |

## 12.2. Persistence and degradability

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | The product is not readily biodegradable. |
| <b>Stability (hydrolysis)</b>        | Reacts with water.                        |
| <b>Biological oxygen demand</b>      | < 10 g O <sub>2</sub> /g substance        |

## Ecological information on ingredients.

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## DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

**Persistence and degradability** The product is not readily biodegradable.

**Stability (hydrolysis)** Reacts with water.

**Biological oxygen demand** < 10 g O<sub>2</sub>/g substance

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** Not available.

### Ecological information on ingredients.

#### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** Not available.

#### DICHLOROMETHANE

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** Not available.

### 12.4. Mobility in soil

**Mobility** The product is non-volatile.

### Ecological information on ingredients.

#### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

**Mobility** The product is non-volatile.

#### DICHLOROMETHANE

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### 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.

#### DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

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

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## DICHLOROMETHANE

Results of PBT and vPvB  
assessment

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

## 12.6. Other adverse effects

### Ecological information on ingredients.

## DICHLOROMETHANE

Other adverse effects

Not applicable.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

General information

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods

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

## **SECTION 14: Transport information**

### 14.1. UN number

|                  |      |
|------------------|------|
| UN No. (ADR/RID) | 2810 |
| UN No. (IMDG)    | 2810 |
| UN No. (ICAO)    | 2810 |
| UN No. (ADN)     | 2810 |

### 14.2. UN proper shipping name

|                                |                               |
|--------------------------------|-------------------------------|
| Proper shipping name (ADR/RID) | TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper shipping name (IMDG)    | TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper shipping name (ICAO)    | TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper shipping name (ADN)     | TOXIC LIQUID, ORGANIC, N.O.S. |

### 14.3. Transport hazard class(es)

|                             |     |
|-----------------------------|-----|
| ADR/RID class               | 6.1 |
| ADR/RID classification code | T1  |
| ADR/RID label               | 6.1 |
| IMDG class                  | 6.1 |

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**ICAO class/division** 6.1

**ADN class** 6.1

**Transport labels**



**14.4. Packing group**

**Packing group (ADR/RID)** III

**Packing group (IMDG)** III

**Packing group (IATA)** III

**Packing group (ICAO)** III

**14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant**

No

**14.6. Special precautions for user**

**EmS** F-A, S-A

**ADR transport category** 2

**Hazard Identification Number (ADR/RID)** 60

**Tunnel restriction code** (E)

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

**SECTION 15: Regulatory information**

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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
Control of Substances Hazardous to Health Regulations 2002 (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).

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

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|                                  |  |
|----------------------------------|--|
| <b>Issued by</b>                 | Technical  |
| <b>Revision date</b>             | 02/08/2018   |
| <b>Hazard statements in full</b> | H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H335 May cause respiratory irritation.<br>H336 May cause drowsiness or dizziness.<br>H351 Suspected of causing cancer.<br>H373 May cause damage to organs through prolonged or repeated exposure. |
| <b>Store Between</b>             | Store Between 5°C - 25°C   |
| <b>Contains SVHC</b>             | NO   |

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.

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