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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

### **1.1. Product Identifier**

**Product Name:** ClassicBond PRO Polyurethane Canister (MCPU) 22L

**Product Code:** 521105

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

**Identified uses** Adhesive. Product for professional use only

**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@ClassicBond.co.uk](mailto:enq@ClassicBond.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 (EC 1272/2008)**

**Physical hazards** Aerosol 1 - H222, H229

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317  
Carc. 2 - H351 STOT SE 3 - H336 STOT RE 2 - H373

**Environmental hazards** Not Classified

**Human health** Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Physicochemical** The product is extremely flammable. Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

### **2.2. Label elements**

**Pictogram**

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**Signal word**

Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
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.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

DICHLOROMETHANE, DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

**Supplemental label information**

EUH204 Contains isocyanates. May produce an allergic reaction.

**Supplementary precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe vapour/ spray.  
P261 Avoid breathing vapour/ spray.  
P264 Wash contaminated skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 [In case of inadequate ventilation] wear respiratory protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P312 Call a POISON CENTER/ doctor if you feel unwell.  
P314 Get medical advice/ attention if you feel unwell.  
P321 Specific treatment (see medical advice on this label).  
P332+P313 If skin irritation occurs: Get medical advice/ attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up. P405 Store locked up.

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### 2.3. Other hazards

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

### 3.2. Mixtures

|                              |  |
|------------------------------|--|
| <b>DIMETHYL ETHER</b>        | <b>10-30%</b>                                    |
| CAS number: 115-10-6         | EC number: 204-065-8                             |
|                              | REACH registration number: 01-2119472128-37-0003 |
| <b>Classification</b>        |  |
| Flam. Gas 1 - H220           |  |
| Press. Gas, Liquefied - H280 |  |

|                        |  |
|------------------------|--|
| <b>DICHLOROMETHANE</b> | <b>10-30%</b>                                    |
| CAS number: 75-09-2    | EC number: 200-838-9                             |
|                        | REACH registration number: 01-2119480404-41-0007 |
| <b>Classification</b>  |  |
| Acute Tox. 4 - H302    |  |
| Skin Irrit. 2 - H315   |  |
| Eye Irrit. 2 - H319    |  |
| Carc. 2 - H351         |  |
| STOT SE 3 - H336       |  |

|  |  |
|--|--|
| <b>DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)</b> | <b>10-30%</b>                                    |
| CAS number: 9016-87-9  | REACH registration number: 01-2119457024-46-0006 |
| <b>Classification</b>  |  |
| 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   |  |

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

#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

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|                            |   |
|----------------------------|---|
| <b>General information</b> | Remove affected person from source of contamination.  |
| <b>Inhalation</b>          | Move affected person to fresh air at once. Get medical attention if any discomfort continues.   |
| <b>Ingestion</b>           | DO NOT induce vomiting. Get medical attention immediately.  |
| <b>Skin contact</b>        | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.  |
| <b>Eye contact</b>         | 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**

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| <b>Inhalation</b>          | Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.                |
| <b>Ingestion</b>           | May cause discomfort if swallowed.  |
| <b>Skin contact</b>        | Prolonged skin contact may cause redness and irritation.  |
| <b>Eye contact</b>         | Vapour, spray or dust may cause chronic eye irritation or eye damage.                                       |

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

|                             |   |
|-----------------------------|---|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---|

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Extinguish with foam, carbon dioxide, dry powder or water fog.         |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire. |

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

|                                      |  |
|--------------------------------------|--|
| <b>Specific hazards</b>              | Containers can burst violently or explode when heated, due to excessive pressure build-up.<br>Extremely flammable.                     |
| <b>Hazardous combustion products</b> | 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**

|   |   |
|---|---|
| <b>Protective actions during firefighting</b> | Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material. |
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**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**

**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**

##### **DIMETHYL ETHER**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

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Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

#### **DICHLOROMETHANE**

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

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 1060 mg/m<sup>3</sup>(Sk)

#### **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>

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

#### **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
- 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

## **8.2. Exposure controls**

**Protective equipment**

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**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.

## SECTION 9: Physical and Chemical Properties

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

|  |  |
|--|--|
| <b>Appearance</b>                      | Aerosol.   |
| <b>Colour</b>                          | Various colours.                                   |
| <b>Odour</b>                           | Characteristic.                                    |
| <b>Odour threshold</b>                 | Not available.                                     |
| <b>pH</b>                              | Not available.                                     |
| <b>Melting point</b>                   | Not available.                                     |
| <b>Initial boiling point and range</b> | Estimated value. -24 (DME)°C @                     |
| <b>Flash point</b>                     | Estimated value. -41 (DME)°C                       |
| <b>Evaporation rate</b>                | Not available.                                     |
| <b>Evaporation factor</b>              | Not available.                                     |
| <b>Flammability (solid, gas)</b>       | Not available.                                     |
| <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. |

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|   |   |
|---|---|
| <b>Partition coefficient</b>                    | Not available.  |
| <b>Decomposition Temperature</b>                | Not available.  |
| <b>Viscosity</b>                                | 50-100 mPa s @ 25°C   |
| <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.           |
| <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. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. |
|----------------------------|---|

### 10.5. Incompatible materials

|                           |                               |
|---------------------------|-------------------------------|
| <b>Materials to avoid</b> | Strong acids. Strong alkalis. |
|---------------------------|-------------------------------|

### 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. |
|---|--|



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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

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

**ATE oral (mg/kg)** 8,333.33

#### **Acute toxicity - inhalation**

**ATE inhalation (vapours mg/l)** 64.71

**ATE inhalation (dusts/mists mg/l)** 8.82

#### **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** Moderately irritating.

#### **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.

**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.

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**Toxicological information on ingredients.**

**DIMETHYL ETHER**

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC<sub>50</sub> gases ppmV) 164,000.0

Species Rat

ATE inhalation (gases ppm) 164,000.0

**DICHLOROMETHANE**

**Acute toxicity - oral**

Acute toxicity oral (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.

**Germ cell mutagenicity**

Genotoxicity - in vitro Positive.

Genotoxicity - in vivo Negative.

**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.

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

**Acute toxicity - oral**

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

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|   |   |
|---|---|
| <b>Species</b>  | Rat   |
| <b>ATE oral (mg/kg)</b>   | 10,000.0  |
| <b><u>Acute toxicity - dermal</u></b>                             |   |
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>              | 9,400.0   |
| <b>Species</b>  | Rabbit  |
| <b>ATE dermal (mg/kg)</b>   | 9,400.0   |
| <b><u>Acute toxicity - inhalation</u></b>                         |   |
| <b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>   | 0.493   |
| <b>Species</b>  | Rat   |
| <b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b> | 0.31  |
| <b>Species</b>  | Rat   |
| <b>ATE inhalation (vapours mg/l)</b>                              | 11.0  |
| <b>ATE inhalation (dusts/mists mg/l)</b>                          | 1.5   |
| <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>                                  | <b><u>Respiratory sensitisation</u></b><br>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</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 |

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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.   |

## SECTION 12: Ecological Information

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

### Ecological information on ingredients.

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

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

#### **12.1. Toxicity**

|   |   |
|---|---|
| <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.

#### **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)   |

#### **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                             |

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### **12.2. Persistence and degradability**

**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

### **Ecological information on ingredients.**

#### **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.**

#### **DICHLOROMETHANE**

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

**Partition coefficient** Not available.

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

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

**Partition coefficient** Not available.

### **12.4. Mobility in soil**

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

### **Ecological information on ingredients.**

#### **DICHLOROMETHANE**

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

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

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

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

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**Results of PBT and vPvB  
assessment**

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

**Ecological information on ingredients.**

**DICHLOROMETHANE**

**Results of PBT and vPvB  
assessment**

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

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

**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**

|                         |      |
|-------------------------|------|
| <b>UN No. (ADR/RID)</b> | 3501 |
| <b>UN No. (IMDG)</b>    | 3501 |
| <b>UN No. (ICAO)</b>    | 3501 |
| <b>UN No. (ADN)</b>     | 3501 |

**14.2. UN proper shipping name**

**Proper shipping name  
(ADR/RID)**

CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

**Proper shipping name (IMDG)**

CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

**Proper shipping name (ICAO)**

CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

**Proper shipping name (ADN)**

CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

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

|                                    |     |
|------------------------------------|-----|
| <b>ADR/RID class</b>               | 2.1 |
| <b>ADR/RID classification code</b> | 8F  |
| <b>ADR/RID label</b>               | 2.1 |
| <b>IMDG class</b>                  | 2.1 |
| <b>ICAO class/division</b>         | 2.1 |
| <b>ADN class</b>                   | 2.1 |

#### **Transport labels**



#### **14.4. Packing group**

#### **14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant**

No.

#### **14.6. Special precautions for user**

|   |          |
|---|----------|
| <b>EmS</b>  | F-D, S-U |
| <b>ADR transport category</b>                     | 2        |
| <b>Emergency Action Code</b>                      | 2YE      |
| <b>Hazard Identification Number<br/>(ADR/RID)</b> | 23       |
| <b>Tunnel restriction code</b>                    | (B/D)    |

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

### **SECTION 15: Regulatory information**

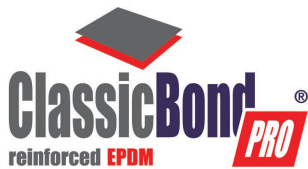
#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                             |  |
|-----------------------------|--|
| <b>National regulations</b> | Control of Pollution Act 1974.   |
| <b>EU legislation</b>       | 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>             | The spraying of flammable liquids HSG178.  |

#### **15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

### **SECTION 16: Other information**



**Safety Data Sheet**  
**Polyurethane Canister**  
**(MCPU) 22L**

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|                                  |   |
|----------------------------------|---|
| <b>Issued by</b>                 | Technical   |
| <b>Revision date</b>             | 01/06/2017  |
| <b>Hazard statements in full</b> | H220 Extremely flammable gas.<br>H222 Extremely flammable aerosol.<br>H229 Pressurised container: may burst if heated<br>H280 Contains gas under pressure; may explode if heated.<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  |

*The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, The Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use*