



23.01.2023

**Kit components**

| Product code | Description |
|--------------|-------------|
|--------------|-------------|

|              |                             |
|--------------|-----------------------------|
| <b>84001</b> | <b>PLASTIC REPAIR RIGID</b> |
|--------------|-----------------------------|

Components:

|        |                  |
|--------|------------------|
| 84001A | PRR Rigid PART A |
| 84001B | PRR Rigid PART B |

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 35 (replaces version 34)

Revision: 13.01.2023

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

#### 1.1 Product identifier

Trade name: **PRR Rigid PART A**

Article number: 84001A

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

**Application of the substance / the mixture** Adhesive

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

**Manufacturer/Supplier:**

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

#### 1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



Eye Irrit. 2 H319 Causes serious eye irritation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**



GHS07

**Signal word** Warning

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Labelling of packages where the contents do not exceed 125 ml**

**Hazard pictograms**



GHS07

**Signal word** Warning

**Hazard statements** Void

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**Precautionary statements**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

**Description:** Mixture of the substances listed below with harmless additions.

**Dangerous components:**

|   |  |        |
|---|--|--------|
| CAS: 102-60-3<br>EINECS: 203-041-4<br>Reg.nr.: 01-2119552434-41 | 1, 1', 1'', 1'''-ethylenedinitrilotetrapropan-2-ol<br>⚠ Eye Irrit. 2, H319   | 25-50% |
| CAS: 64852-22-8   | Glyceryl ply(oxypropylene)triamine<br>⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412                         | <3%    |
|   | Reactint® black 1852<br>Aquatic Chronic 3, H412  | 0-<3%  |
| CAS: 1185-81-5  | Di-N-butylbis (dodecylthio) tin<br>⚠ Muta. 2, H341; Repr. 1A, H360; STOT RE 1, H372; ⚠ Acute Tox. 4, H312; ⚠ Skin Irrit. 2, H315 | <0.25% |

**Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**After inhalation** Take affected persons into the open air and position comfortably

**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

**After swallowing** In case of persistent symptoms consult doctor.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents**

Use fire fighting measures that suit the environment.

CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

**Additional information**

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Not required.

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- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**  
Send for recovery or disposal in suitable containers.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.  
Protect from humidity and keep away from water.  
Store container in a well ventilated position.
- **Storage class** 10
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

##### 1318-02-1 zeolites

|            |                           |                                |
|------------|---------------------------|--------------------------------|
| Dermal     | Long term systemic effect | 2.5 mg/kg/body wt/day (Worker) |
| Inhalative | Long term local effect    | 3 mg/m3 (Worker)               |

#### · PNECs

##### 102-60-3 1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol

|      |                                      |
|------|--------------------------------------|
| PNEC | 0.085 mg/l (Aqua (freshwater))       |
|      | 1.51 mg/l (Aqua (intermittent))      |
|      | 0.0085 mg/l (Aqua (marine water))    |
|      | 0.193 mg/kg (Freshwater sediment)    |
|      | 0.0193 mg/kg (Marine water sediment) |
|      | 70 mg/l (Sewage treatment plant)     |

##### 1318-02-1 zeolites

|      |                                   |
|------|-----------------------------------|
| PNEC | 3.2 mg/l (Aqua (freshwater))      |
|      | 0.32 mg/l (Aqua (marine water))   |
|      | 95 mg/kg (Sewage treatment plant) |
|      | 600 mg/kg dry weight (Soil)       |

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not necessary if room is well-ventilated.

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**Hand protection**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

Value for the permeation: Level 6 &gt; 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Safety glasses (EN 166)

**Body protection:** Protective work clothing (EN-13034/6)**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information**

|   |                                 |
|---|---------------------------------|
| <b>Physical state</b>   | Fluid                           |
| <b>Colour:</b>  | Black                           |
| <b>Odour:</b>   | Characteristic                  |
| <b>Odour threshold:</b>   | Not determined.                 |
| <b>Melting point/freezing point:</b>                            | Not determined                  |
| <b>Boiling point or initial boiling point and boiling range</b> | >200 °C                         |
| <b>Flammability</b>   | Not applicable.                 |
| <b>Lower and upper explosion limit</b>                          |                                 |
| <b>Lower:</b>   | Not determined.                 |
| <b>Upper:</b>   | Not determined.                 |
| <b>Flash point:</b>   | 182 °C                          |
| <b>Decomposition temperature:</b>                               | Not determined.                 |
| <b>pH</b>   | Mixture is non-polar/aprotic.   |
| <b>Viscosity:</b>   |                                 |
| <b>Kinematic viscosity</b>                                      | Not determined.                 |
| <b>dynamic at 25 °C:</b>  | 860 mPas                        |
| <b>Solubility</b>   |                                 |
| <b>Water:</b>   | Not miscible / difficult to mix |
| <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.                 |
| <b>Vapour pressure at 20 °C:</b>                                | 1 hPa                           |
| <b>Density and/or relative density</b>                          |                                 |
| <b>Density</b>  | Not determined                  |
| <b>Relative density at 20 °C</b>                                | 1.02                            |
| <b>Vapour density</b>   | Not determined.                 |

**9.2 Other information**

|  |                              |
|--|------------------------------|
| <b>Appearance:</b>   |                              |
| <b>Form:</b>   | Fluid                        |
| <b>Important information on protection of health and environment, and on safety.</b> |                              |
| <b>Self-flammability:</b>  | Product is not selfigniting. |
| <b>Explosive properties:</b>   | Product is not explosive.    |

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|  |                 |
|--|-----------------|
| · <b>Solvent content:</b>  |                 |
| · <b>Organic solvents:</b>   | NIL VOC         |
| · <b>Change in condition</b>   |                 |
| · <b>Evaporation rate</b>  | Not determined. |
| · <b>Information with regard to physical hazard classes</b>                        |                 |
| · <b>Explosives</b>  | Void            |
| · <b>Flammable gases</b>   | Void            |
| · <b>Aerosols</b>  | Void            |
| · <b>Oxidising gases</b>   | Void            |
| · <b>Gases under pressure</b>  | Void            |
| · <b>Flammable liquids</b>   | Void            |
| · <b>Flammable solids</b>  | Void            |
| · <b>Self-reactive substances and mixtures</b>                                     | Void            |
| · <b>Pyrophoric liquids</b>  | Void            |
| · <b>Pyrophoric solids</b>   | Void            |
| · <b>Self-heating substances and mixtures</b>                                      | Void            |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void            |
| · <b>Oxidising liquids</b>   | Void            |
| · <b>Oxidising solids</b>  | Void            |
| · <b>Organic peroxides</b>   | Void            |
| · <b>Corrosive to metals</b>   | Void            |
| · <b>Desensitised explosives</b>   | Void            |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values that are relevant for classification:**

**102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol**

|      |   |
|------|---|
| EC20 | 1,000 /30 min (Activated sludge) (OECD 209) |
|------|---|

**8001-79-4 Castor oil**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >4,952 mg/kg (Rat) |
|------|------|--------------------|

**64852-22-8 Glyceryl ply(oxypropylene)triamine**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 2,690 mg/kg (RAT) |
|------|------|-------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | 12,500 mg/kg (RAB) |
|--------|------|--------------------|

- **Serious eye damage/irritation** Causes serious eye irritation.
- **11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### 102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol

|                |   |
|----------------|---|
| EC50 (48 hr)   | >100 mg/l (Daphnia magna) (EC 92/69)                |
| EC50 (72 hr)   | >100 mg/l (Desmodesmus subspicatus) (84/449EEC C.3) |
| LC50 (48 hr)   | >100 mg/l (Leuciscus Idus) (DIN 34812 T.15)         |
| NOEC (21 days) | >10 mg/l (Daphnia magna) (OECD 211)                 |

##### 64852-22-8 Glyceryl poly(oxypropylene)triamine

|              |                |
|--------------|----------------|
| LC50 (96 hr) | 68 mg/l (Fish) |
|--------------|----------------|

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

##### Additional ecological information:

##### General notes:

At present there are no ecotoxicological assessments.

Generally not hazardous for water.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR, ADN, IMDG, IATA Void

#### 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Void

#### 14.4 Packing group

ADR, IMDG, IATA Void

#### 14.5 Environmental hazards:

Marine pollutant: No

#### 14.6 Special precautions for user

Not applicable.

#### 14.7 Maritime transport in bulk according to IMO instruments

NOT REGULATED

##### Transport/Additional information:

Not dangerous according to the above specifications.

##### UN "Model Regulation":

Void

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Water hazard class:** Generally not hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H319 Causes serious eye irritation.
  - H341 Suspected of causing genetic defects.
  - H360 May damage fertility or the unborn child.
  - H372 Causes damage to organs through prolonged or repeated exposure.
  - H412 Harmful to aquatic life with long lasting effects.
- **Department issuing data specification sheet:** Environment protection department
- **Abbreviations and acronyms:**
  - RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (UK REACH)
  - PNEC: Predicted No-Effect Concentration (UK REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Muta. 2: Germ cell mutagenicity – Category 2
  - Repr. 1A: Reproductive toxicity – Category 1A
  - STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **Data compared to the previous version altered.** \*



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 45 (replaces version 44)

Revision: 13.01.2023

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

#### 1.1 Product identifier

Trade name: **PRR Rigid PART B**

Article number: 84001B

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

**Application of the substance / the mixture** Adhesive

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

**Manufacturer/Supplier:**

KENT (United Kingdom) Ltd

Forsyth House

Pitreavie Drive

Pitreavie Business Park

Dunfermline

Fife

KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

#### 1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS07



GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

methylenediphenyl diisocyanate

**Hazard statements**

H332 Harmful if inhaled.

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

**Precautionary statements**

P201 Obtain special instructions before use.  
 P280 Wear protective gloves / eye protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

**Additional information:**

Contains isocyanates. May produce an allergic reaction.  
 As from 24 August 2023 adequate training is required before industrial or professional use.

**Labelling of packages where the contents do not exceed 125 ml****Hazard pictograms**

GHS07

GHS08

**Signal word** Danger**Hazard-determining components of labelling:**

methylenediphenyl diisocyanate

**Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.

**Precautionary statements**

P201 Obtain special instructions before use.  
 P280 Wear protective gloves / eye protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture of the substances listed below with harmless additions.**Dangerous components:**

|           |   |         |
|-----------|---|---------|
| 9016-87-9 | methylenediphenyl diisocyanate  | 75-100% |
|           | ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204<br>Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %<br>Skin Irrit. 2; H315: C ≥ 5 %<br>Resp. Sens. 1; H334: C ≥ 0.1 %<br>STOT SE 3; C ≥ 5 % |         |

**Additional information** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

**After skin contact**

Instantly wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.· **After swallowing** In case of persistent symptoms consult doctor.· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Formation of toxic gases is possible during heating or in case of fire.

#### · 5.3 Advice for firefighters

##### · **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Wear full protective suit.

##### · **Additional information**

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

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

Use breathing protection against the effects of fumes / dust / aerosol.

· **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable containers.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Keep away from heat and direct sunlight.

· **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

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

##### · **Storage**

· **Requirements to be met by storerooms and containers:** Store in cool location.· **Information about storage in one common storage facility:** Not required.

##### · **Further information about storage conditions:**

Protect from heat and direct sunlight.

Protect from humidity and keep away from water.

Store container in a well ventilated position.

· **Storage class** 10· **7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Components with limit values that require monitoring at the workplace:

##### 9016-87-9 methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m<sup>3</sup>  
 Long-term value: 0.02 mg/m<sup>3</sup>  
 Sen; as -NCO

Regulatory information WEL: EH40/2020

Additional information: The lists that were valid during the compilation were used as basis.

#### 8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

##### General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

##### Breathing equipment:

Ensure good ventilation. If this is not sufficient breathing protection must be used so that the vaporisation level is held under the workplace limit.

Short term filter device:

Filter B (EN 14387)

##### Hand protection



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### Material of gloves

Wear suitable gloves tested to EN 374

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

##### Penetration time of glove material

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Eye/face protection



Safety glasses (EN 166)

Body protection: Protective work clothing (EN-13034/6)

### SECTION 9: Physical and chemical properties

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

##### General Information

##### Physical state

Fluid

##### Colour:

Dark yellow

##### Odour:

Characteristic

##### Odour threshold:

Not determined.

##### Melting point/freezing point:

Not determined

##### Boiling point or initial boiling point and boiling range

> 300 °C

##### Flammability

Not applicable.

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|  |                                 |
|--|---------------------------------|
| · <b>Lower and upper explosion limit</b>                   |                                 |
| · <b>Lower:</b>  | Not determined.                 |
| · <b>Upper:</b>  | Not determined.                 |
| · <b>Flash point:</b>                                      | 205 °C                          |
| · <b>Ignition temperature:</b>                             | >600 °C                         |
| · <b>Decomposition temperature:</b>                        | Not determined.                 |
| · <b>pH</b>  | Mixture is non-polar/aprotic.   |
| · <b>Viscosity:</b>  |                                 |
| · <b>Kinematic viscosity</b>                               | Not determined.                 |
| · <b>dynamic:</b>  | 1000 mPas                       |
| · <b>Solubility</b>  |                                 |
| · <b>Water:</b>  | Not miscible / difficult to mix |
| · <b>Partition coefficient n-octanol/water (log value)</b> | Not determined.                 |
| · <b>Vapour pressure:</b>                                  | 0.01 Pa                         |
| · <b>Density and/or relative density</b>                   |                                 |
| · <b>Density</b>   | Not determined                  |
| · <b>Relative density at 20 °C</b>                         | 1.22                            |
| · <b>Vapour density</b>                                    | Not determined.                 |

|  |                              |
|--|------------------------------|
| · <b>9.2 Other information</b>   |                              |
| · <b>Appearance:</b>   |                              |
| · <b>Form:</b>   | Fluid                        |
| · <b>Important information on protection of health and environment, and on safety.</b> |                              |
| · <b>Self-inflammability:</b>  | Product is not selfigniting. |
| · <b>Explosive properties:</b>   | Product is not explosive.    |
| · <b>Solvent content:</b>  |                              |
| · <b>Organic solvents:</b>   | Nil VOC                      |
| · <b>Change in condition</b>   |                              |
| · <b>Evaporation rate</b>  | Not determined.              |

|  |      |
|--|------|
| · <b>Information with regard to physical hazard classes</b>                        |      |
| · <b>Explosives</b>  | Void |
| · <b>Flammable gases</b>   | Void |
| · <b>Aerosols</b>  | Void |
| · <b>Oxidising gases</b>   | Void |
| · <b>Gases under pressure</b>  | Void |
| · <b>Flammable liquids</b>   | Void |
| · <b>Flammable solids</b>  | Void |
| · <b>Self-reactive substances and mixtures</b>                                     | Void |
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | Void |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** Heat. Hot surfaces. Sources of ignition. Flames.
- **10.5 Incompatible materials:**
  - Strong acids and oxidizing agents
  - Reducing agents
  - Alkalis

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· **10.6 Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Harmful if inhaled.

· **LD/LC50 values that are relevant for classification:**

#### 9016-87-9 methylenediphenyl diisocyanate

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | >5,000 mg/kg (Rat)    |
| Dermal | LD50 | >5,000 mg/kg (Rabbit) |

#### 8001-79-4 Castor oil

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >4,952 mg/kg (Rat) |
|------|------|--------------------|

· **Skin corrosion/irritation** Causes skin irritation.

· **Serious eye damage/irritation** Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· **Carcinogenicity** Suspected of causing cancer.

· **STOT-single exposure** May cause respiratory irritation.

· **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.

· **Additional toxicological information:** Limited evidence of a carcinogenic effect.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

#### 9016-87-9 methylenediphenyl diisocyanate

|                |  |
|----------------|--|
| EC50 (24 hr)   | >1,000 mg/l (Daphnia magna) (OECD 202)     |
| EC50           | >100 mg/l (Activated sludge) (OECD 209 3h) |
| EC50 (48 hr)   | >1,000 mg/l (Daphnia magna)                |
| EC50 (72 hr)   | >1,640 mg/l (Algae) (OECD 201)             |
| LC50 (96 hr)   | >1,000 mg/l (Fish) (OECD 203)              |
| NOEC (21 days) | >10 mg/l (Daphnia magna) (OECD 202)        |

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

*Void*

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

RID: (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

**Data compared to the previous version altered. \***

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