

**SAFETY DATA SHEET**  
**RonaDeck Non-UV Resin Bound Surfacing Resin - Part A**

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

**1.1 Product identifier**

- Product Name: Ronadeck Non-UV Resin Bound Surfacing Resin - Part A

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

- Use of the substance/mixture: Professional Two Component Aromatic Stone Binder
- Use advised against: No specific uses advised against are identified

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

- Name of Supplier:  
Ronacrete Ltd
- Address of Supplier:  
Ronac House, Flex Meadow,  
Harlow, Essex, CM19 5TD
- Telephone: +44(0) 1279 638700
- Email: technical@ronacrete.co.uk

**1.4 Emergency telephone number**

- Emergency Telephone: +44(0) 1279 638700

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**SECTION 2: Hazards identification**

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

**2.1 Classification of the substance or mixture**

- Physical hazards: Not Classified
- Health hazards: Not Classified
- Environmental hazards: Not Classified

**2.2 Label elements**

- Signal Word: None

**Hazard statements**

None

**Precautionary statements**

None

**2.3 Other hazards**

## **SECTION 2: Hazards identification (....)**

- None
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## **SECTION 3: Composition/information on ingredients**

### **3.1 Substances**

- Not applicable

### **3.2 Mixtures**

- The product is not classified as hazardous according to directive 1999/45/EEC
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## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

#### **Contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical attention if ill effects occur

#### **Contact with skin**

IF ON SKIN: Gently wash with plenty of soap and water.  
Seek medical attention if ill effects occur

#### **Ingestion**

If swallowed, rinse mouth with water (only if the person is conscious)  
Give water or milk to drink  
Do not induce vomiting  
If vomiting occurs turn patient on side  
Never make an unconscious person vomit or drink fluids  
Get medical advice/attention if you feel unwell.

#### **Inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Seek medical advice if necessary

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

- May cause nausea/vomiting
- May cause redness and irritation

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

- Treat symptomatically
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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
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## **SECTION 5: Firefighting measures (....)**

- Do not use water jets

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

- Hazardous Products of Combustion: Carbon oxides may be formed

### **5.3 Advice for firefighters**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
  - Fight fire with normal precautions from a reasonable distance.
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## **SECTION 6: Accidental release measures**

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

- No special precautions are required for this product
- Remove contaminated clothing
- Wash thoroughly after dealing with spillage

### **6.2 Environmental precautions**

- No special precautions are required for this product
- Do not empty into drains
- Do not flush spilt material into any public water system
- Use appropriate containment to avoid environmental contamination

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

- Absorb spillage in suitable inert material
- Clean spill site with detergent; avoid using solvents
- To clean the floor and all objects contaminated by this material use soap and water
- Wash thoroughly after dealing with spillage

### **6.4 Reference to other sections**

- See Section 8, 13
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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

- Wash hands and working surfaces thoroughly after handling.
- Wash contaminated clothing before reuse.
- Use good personal hygiene practices
- Wear suitable gloves
- Wear eye/face protection

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

- Keep away from alkalis (strong bases)
- Keep in a cool, dry, well ventilated place
- Keep only in the original container

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

- See Section 1.2
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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Occupational exposure controls**

- Not applicable

### **8.2 Precautionary measures**

- Use good personal hygiene practices
- Wear suitable gloves
- Wear eye/face protection

### **8.3 Environmental exposure controls**

- Do not empty into drains; dispose of this material and its container in a safe way
- 

## **SECTION 9: Physical and chemical properties**

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

- Physical state: liquid
- Colour: amber
- Flammability: Not flammable
- Flashpoint: >93°C
- pH: not applicable
- Solubility in water: Insoluble in water
- Viscosity: 2,800 ± 300 mPa.s at 23 °C
- Density: 1.04 g/cm<sup>3</sup> at 23 °C
- Boiling point - not known
- Melting point - not known

### **9.2 Other information**

- No information available
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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

- No hazardous reactions known if used for its intended purpose

### **10.2 Chemical stability**

- Considered stable under normal conditions

### **10.3 Possibility of hazardous reactions**

- No hazardous reactions known if used for its intended purpose

### **10.4 Conditions to avoid**

- No special precautions are required for this product

### **10.5 Incompatible materials**

- No hazardous reactions known if used for its intended purpose

### **10.6 Hazardous decomposition products**

## **SECTION 10: Stability and reactivity (....)**

- No hazardous decomposition products known
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## **SECTION 11: Toxicological information**

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

- Not hazardous
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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

- Not Classified

### **12.2 Persistence and degradability**

- No information available

### **12.3 Bioaccumulative potential**

- No information available

### **12.4 Mobility in soil**

- Insoluble in water

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

- Not Classified

### **12.6 Other adverse effects**

- No hazardous reactions known if used for its intended purpose
- 

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation
  - Dispose of contents/container to an authorised waste collection point
  - Do not empty into drains
  - Incineration by an approved method could be considered
  - Surplus product may not be returned
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## **SECTION 14: Transport information**

### **14.1 UN number or ID number**

- UN No.: Not applicable

### **14.2 UN proper shipping name**

- Proper Shipping Name: Not applicable

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

- Hazard Class: Not applicable
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## **SECTION 14: Transport information (....)**

### **14.4 Packing group**

- Not applicable

### **14.5 Environmental hazards**

- Not Classified

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

- Not applicable

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

- Not applicable
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## **SECTION 15: Regulatory information**

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

- The COSHH Regulations apply in the UK
- This Safety Data Sheet is provided in compliance with the Health and Safety at Work Act
- United Kingdom - The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulation 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]
- United Kingdom - EH40/2005 Workplace Exposure Limits
- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

### **15.2 Chemical safety assessment**

- This Safety Data Sheet does not constitute a workplace risk assessment
  - A REACH chemical safety assessment has not been carried out
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## **SECTION 16: Other information**

Version Details:

Version -

Updated -

Replaces Version -

Updated Sections -

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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.

--- end of safety datasheet ---

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**SAFETY DATA SHEET**  
RonaDeck Non-UV Resin Bound Surfacing Resin - Part B

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

**1.1 Product identifier**

- Product Name: RonaDeck Non-UV Resin Bound Surfacing Resin - Part B

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

- Use of the substance/mixture: Professional Two Component Aromatic Stone Binder
- Use advised against: No specific uses advised against are identified

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

- Name of Supplier:  
Ronacrete Ltd
- Address of Supplier:  
Ronac House, Flex Meadow,  
Harlow, Essex, CM19 5TD
- Telephone: +44(0) 1279 638700
- Email: technical@ronacrete.co.uk

**1.4 Emergency telephone number**

- Emergency Telephone: +44 (0) 1279 638700

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**SECTION 2: Hazards identification**

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

**2.1 Classification of the substance or mixture**

- Physical hazards: Not Classified
- Health hazards: H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure
- Environmental hazards: Not Classified

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## SECTION 2: Hazards identification (....)

- CLP: Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Acute Tox. 4, Resp. Sens. 1, STOT SE 3, Carc. 2, STOT RE 2

### 2.2 Label elements



- Signal Word: Danger

#### Hazard statements

Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.  
Contains isocyanates. May produce an allergic reaction.

#### Precautionary statements

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN: Wash with plenty of soap and water.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.

### 2.3 Other hazards

- Contains: Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate, 4,4'-Methylenediphenyl diisocyanate, oligomers, Polymeric diphenylmethane diisocyanate, Polymeric MDI
- In the EU, NO, IS, LI and GB: "As from 24 August 2023 adequate training is required before industrial or professional use."

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

- Not applicable

### 3.2 Mixtures

#### Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate

CAS Number: 26447-40-5  
EC Number: 247-714-0



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**SECTION 3: Composition/information on ingredients (....)**

REACH Registration Number: 01-2119457015-45-0000  
Concentration: 70 - 90%  
Categories: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1B, Carc. 2, STOT SE 3, STOT RE 2  
Symbols: GHS07, GHS08  
H Statements: EUH204, H315, H317, H319, H332, H334, H335, H351, H373

**4,4'-Methylenediphenyl diisocyanate, oligomers**

CAS Number: 25686-28-6  
EC Number: 500-040-3  
REACH Registration Number: 01-2119457013-49-0000  
Concentration: 10 - 20%  
Categories: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1B, Carc. 2, STOT SE 3, STOT RE 2  
Symbols: GHS07, GHS08  
H Statements: EUH204, H315, H317, H319, H332, H334, H335, H351, H373

**Polymeric diphenylmethane diisocyanate, Polymeric MDI**

CAS Number: 9016-87-9  
EC Number: 618-498-9  
REACH Registration Number: -  
Concentration: 10 - 20%  
Categories: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT SE 3, STOT RE 2  
Symbols: GHS07, GHS08  
H Statements: H315, H317, H319, H332, H334, H335, H351, H373, EUH204

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**SECTION 4: First aid measures****4.1 Description of first aid measures****Contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.  
If eye irritation persists: Get medical advice/attention.

**Contact with skin**

After contact with skin, wash immediately with plenty of soap and water  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.

**Ingestion**

If swallowed, rinse mouth with water (only if the person is conscious)  
Never make an unconscious person vomit or drink fluids  
Do not induce vomiting

## **SECTION 4: First aid measures (....)**

If vomiting occurs turn patient on side  
Get medical advice/attention if you feel unwell.

### **Inhalation**

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If breathing is difficult, oxygen should be given by a trained person

Seek medical advice if necessary

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

- May cause dry throat
- May cause headache
- May cause nausea/vomiting
- May cause redness and irritation
- May cause shortness of breath
- May cause sensitisation by inhalation and skin contact
- Suspected of causing cancer.

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

- Treat symptomatically
  - If breathing is difficult, oxygen should be given by a trained person
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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Do not use water jets

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

- Hazardous Products of Combustion: Nitrogen and carbon oxides may be formed, Cyanide compounds may be formed
- Reacts with water

### **5.3 Advice for firefighters**

- Fight fire with normal precautions from a reasonable distance.
  - Wear Positive-Pressure Breathing Apparatus
  - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
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## **SECTION 6: Accidental release measures**

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

- Avoid contact with water
- Do not allow product to come into contact with water or moisture
- Do not apply water to leaking containers
- Wash thoroughly after dealing with spillage
- Remove contaminated clothing
- Wear suitable protective clothing, eye/face protection

### **6.2 Environmental precautions**

## **SECTION 6: Accidental release measures (....)**

- Avoid release to the environment.
- Do not empty into drains
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

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

- Absorb spillage in inert material and shovel up
- Clean spill site with detergent; avoid using solvents
- Place in appropriate container
- Remove contaminated material to safe location for subsequent disposal
- Ventilate area

### **6.4 Reference to other sections**

- See Section 8, 13
- 

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

### **7.1 Precautions for safe handling**

- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after using this substance
- Wash contaminated clothing before reuse.
- Wear protective gloves/protective clothing/eye protection/face protection.

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

- Keep container tightly closed, in a cool, well ventilated place
- Store in original packaging, in dry conditions.
- Keep away from water

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

- See Section 1.2
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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Occupational exposure controls**

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate

CAS Number: 26447-40-5

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

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup> (NCO)

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4,4'-Methylenediphenyl diisocyanate, oligomers

CAS Number: 25686-28-6

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

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup> (NCO)

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## **SECTION 8: Exposure controls/personal protection (....)**

DNEL according to Regulation (EC) No. 1907/2006:  
Worker – Inhalation Local Effects Long-term Exposure: 50 µg/m<sup>3</sup>  
Worker – Inhalation Local Effects Acute Exposure: 100 µg/m<sup>3</sup>

PNEC according to Regulation (EC) No. 1907/2006:  
Freshwater: 3.7 µg/L  
Intermittent releases (freshwater): 37 µg/L  
Marine water: 370 ng/L  
Sediment (freshwater): 11.7 mg/kg sediment dw  
Sediment (marine water): 1.17 mg/kg sediment dw  
Soil: 2.33 mg/kg soil dw

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Polymeric diphenylmethane diisocyanate, Polymeric MDI  
CAS number: 9016-87-9  
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup> (NCO)  
Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup> (NCO)  
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DNEL according to Regulation (EC) No. 1907/2006:  
Worker - Inhalation Acute local effects: 0.1 mg/m<sup>3</sup>  
Worker - Inhalation Long-term local effects: 0.05 mg/m<sup>3</sup>  
Worker - Inhalation Long-term systematic effects: 0.05 mg/m<sup>3</sup>  
Worker - Dermal Acute systematic effects: 50 mg/kg/day  
Worker - Dermal Acute local effects: 27.8 mg/kg/day

PNEC according to Regulation (EC) No. 1907/2006:  
Fresh water: 1 mg/l  
Marine water: 0.1 mg/  
Intermittent release: 10 mg/l  
Sewage treatment plant: 1 mg/l  
Soil: 1 mg/kg

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Abbreviations  
bw = body weight  
DNEL = derived no-effect level  
dw = dry weight  
NCO = isocyanate  
PNEC = predicted no-effect concentration  
Sen = sensitiser, substances which may cause occupational asthma  
TWA = time weighted average  
WEL = workplace exposure limit

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EH40/2005 Workplace Exposure Limits: Medical supervision of all employees who come in contact with respiratory sensitisers is recommended. Personnel with a history of asthma-type conditions, bronchitis or skin sensitisation conditions should not work with MDI based products. The OELs listed do not apply to previously sensitised individuals. Sensitised individuals should be removed from any further exposure.

### **8.2 Precautionary measures**

- Use good personal hygiene practices
- Do not eat, drink or smoke when using this product.

## SECTION 8: Exposure controls/personal protection (....)

- Eye protection: Eyewash bottles should be available, Wear goggles giving complete eye protection
- Hand protection: Wear butyl rubber gloves, Wear nitrile gloves, EN374
- Skin and body protection: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water, Wear suitable protective clothing
- Respiratory protection: Ensure adequate ventilation, In case of inadequate ventilation wear respiratory protection., Filer A2/P2

### 8.3 Environmental exposure controls

- Store in a well-ventilated place. Keep container tightly closed.
  - Do not empty into drains; dispose of this material and its container in a safe way
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state: liquid
- Colour: brown
- Flammability: Not flammable
- Flashpoint: >93°C
- pH: not applicable
- Solubility in water: Insoluble in water
- Viscosity: 150 ± 80 mPa.s at 23 °C
- Density: 1.24 ± 0.05 g/cm<sup>3</sup> at 23 °C
- Boiling point - not known
- Melting point - not known

### 9.2 Other information

- No information available
- 

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- Reacts with moist air or water

### 10.2 Chemical stability

The main removal mechanism of isocyanate-based products in the environment is hydrolysis. Isocyanate based products react quickly with water to form predominantly solid, insoluble polyurethane or polyurea. Under conditions typical of many types of environmental contact, i.e. with relatively poor dispersion of the denser isocyanate, the interfacial reaction leads to the formation of a solid crust encasing partially or unreacted material. This crust restricts ingress of water and hence slows and modifies hydrolysis.

### 10.3 Possibility of hazardous reactions

- Carbon dioxide may be formed

### 10.4 Conditions to avoid

## SECTION 10: Stability and reactivity (....)

- Keep away from heat, light and moisture

### 10.5 Incompatible materials

- No hazardous reactions known if used for its intended purpose

### 10.6 Hazardous decomposition products

- No hazardous decomposition products known
- 

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Skin Irrit. 2 - Causes skin irritation

Skin Sens. 1 - May cause an allergic skin reaction

Eye Irrit. 2 - Causes serious eye irritation

Acute Tox. 4 - Harmful if inhaled

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

STOT SE 3 - May cause respiratory irritation

Carc. 2 - Suspected of causing cancer

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

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Toxicological data for the components:

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(piscyanatobenzyl) phenyl isocyanate

CAS Number: 26447-40-5

•Acute Toxicity - Oral: LD50 = >9400 mg/kg bw

Test species - Rabbit, male/female

Test guideline - OECD Guideline 402

•Irritation - Skin = irritating

Test species - Rabbit

Test guideline - OECD Guideline 404

•Irritation - Eyes = irritating

Test species - Rabbit

Test guideline - OECD Guideline 405

•Sensitisation - Skin = may cause sensitisation

Test species - Guinea pig

Test guideline - OECD Guideline 406

•Sensitisation - Respiratory = may cause sensitisation

Test species - Guinea pig

Test guideline - OECD Guideline 406

•STOT SE - Inhalation = May cause respiratory irritation

•STOT RE - Inhalation = May cause damage to organs through prolonged or repeated exposure

.

4,4'-Methylenediphenyl diisocyanate, oligomers

CAS Number: 25686-28-6

•Acute Toxicity - Oral: LD50 = >5000 mg/kg bw

Test species - Rat, female

Test guideline - OECD Guideline 425

•Acute Toxicity - Dermal: LD50 = >9400 mg/kg

read-across based on grouping of substances (category approach)

•Acute Toxicity - Inhalation: LC50 = 431 mg/m<sup>3</sup>

read-across based on grouping of substances (category approach)

•Irritation - Skin = irritating

## SECTION 11: Toxicological information (....)

- Test species - Rabbit
- Test guideline - OECD Guideline 404
- Irritation - Eyes = irritating
  - Test species - Rabbit
  - Test guideline - OECD Guideline 405
- Sensitisation - Skin = may cause sensitisation
  - Test species - Guinea pig
  - Test guideline - OECD Guideline 406
- Sensitisation - Respiratory = may cause sensitisation
  - Test species - Guinea pig
  - Test guideline - OECD Guideline 406
- STOT SE - Inhalation = May cause respiratory irritation
- STOT RE - Inhalation = May cause damage to organs through prolonged or repeated exposure
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- Polymeric diphenylmethane diisocyanate, Polymeric MDI
- CAS number: 9016-87-9
- Acute Toxicity - Oral: LD50 = >10000 mg/kg bw
  - Test species - Rat
  - Test guideline - OECD Guideline 401
- Acute Toxicity - Dermal: LD50 = >9400 mg/kg
  - Test species - Rabbit, male/female
  - Test guideline - OECD Guideline 402
- Acute Toxicity - Inhalation: LC50 = 0.49 mg/L
  - Test species - Rat, male/female
  - Test guideline - OECD Test Guideline 403
  - Test atmosphere - dust/mist
  - Exposure duration - 4 hours
- Irritation - Skin = irritating
  - Test species - Rabbit
  - Test guideline - OECD Guideline 404
- Irritation - Eyes = irritating (reversing within 7 days)
  - Test species - Rabbit
  - Test guideline - OECD Guideline 405
- Sensitisation - Skin = May cause sensitisation by skin contact
  - Test species - Guinea pig
  - Test guideline - OECD Guideline 406
- Sensitisation - Respiratory = May cause sensitisation by inhalation
  - Test species - Rat
- Carcinogenicity = carcinogenic
  - Test species - Rat, male/female
  - Application route - Inhalation
  - Exposure time - 24 months
  - Dose - 1 mg/m<sup>3</sup>
  - Frequency of treatment - 5 daily
  - Test guideline - OECD Guideline 453
- STOT SE - Inhalation = May cause respiratory irritation
- STOT RE - Inhalation = May cause damage to the respiratory tract through prolonged or repeated exposure
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## SECTION 12: Ecological information

## **SECTION 12: Ecological information (....)**

### **12.1 Toxicity**

- Not Classified

#### **Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate**

EC<sub>50</sub> (daphnia): 1000 mg/l (48 hr)

LC<sub>50</sub> (fish): 1000 mg/l (96 hr)

#### **Polymeric diphenylmethane diisocyanate, Polymeric MDI**

LC<sub>50</sub> (fish): 1000 mg/l (96 hr)

### **12.2 Persistence and degradability**

- No information available

### **12.3 Bioaccumulative potential**

- No information available

### **12.4 Mobility in soil**

This product is not miscible with water and reacts to form a solid long chain polyurethane. Based on this it is unlikely to present a risk for mobility.

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

- Not Classified

### **12.6 Other adverse effects**

- No hazardous reactions known if used for its intended purpose
- 

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

- Disposal can be a hazardous operation, seek specialist advice
  - Disposal should be in accordance with local, state or national legislation
  - Do not discharge into drains or the environment, dispose to an authorised waste collection point
  - Wastes should not be confined
- 

## **SECTION 14: Transport information**

### **14.1 UN number or ID number**

- UN No.: Not applicable

### **14.2 UN proper shipping name**

- Proper Shipping Name: Not applicable

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

- Hazard Class: Not applicable

### **14.4 Packing group**



## **SECTION 14: Transport information (....)**

- Not applicable

### **14.5 Environmental hazards**

- Not Classified

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

- Not applicable

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

- Not applicable
- 

## **SECTION 15: Regulatory information**

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

- The COSHH Regulations apply in the UK
- This Safety Data Sheet is provided in compliance with the Health and Safety at Work Act
- United Kingdom - The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulation 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]
- United Kingdom - EH40/2005 Workplace Exposure Limits
- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

### **15.2 Chemical safety assessment**

- This Safety Data Sheet does not constitute a workplace risk assessment
  - A REACH chemical safety assessment has not been carried out
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## **SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- EUH204: Contains isocyanates. May produce an allergic reaction. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure.

Version Details:

Version -

Updated -

Replaces Version -

Updated Sections -

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Full text of GHS H-Statements referred to under sections 2 and 3:

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H332: Harmful if inhaled

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335: May cause respiratory irritation

H351: Suspected of causing cancer

H373: May cause damage to organs through prolonged or repeated exposure

**SECTION 16: Other information (....)**

Full test of EU H-Statements referred to under section 2 and 3:  
EUH204: Contains isocyanates. May produce an allergic reaction

Full list of GHS P-statements

Prevention:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
- P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P264: Wash 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.

Response:

- P302+352: IF ON SKIN: Wash with plenty of water.
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P308+313: If exposed: Call a POISON CENTER or doctor/physician
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P314: Get medical advice/attention if you feel unwell.
- P321: Specific treatment (see medical advise on this label).
- P332+313: If skin irritation occurs: Get medical advice/attention.
- P333+313: If skin irritation or a rash occurs: Get medical advice/attention.
- P337+313: If eye irritation persists get medical advice/attention.
- P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P362+364: Take off contaminated clothing and wash it before reuse.
- P363: Wash contaminated clothing before reuse.

Storage:

- P403+233: Store in a well ventilated place. Keep container tightly closed.
- P405: Store locked up.

Disposal:

- P501: Dispose of contents/containers in accordance with national regulations.

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.

--- end of safety datasheet ---

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