

## Safety Data Sheet

### Resin Bound PRO UVR Part B

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

##### 1.1 Product Identifier

Product name : HEXAMETHYLENE DIISOCYANATE  
OLIGOMERS ISOCYANURATE TYPE

Product number : 51230

Trade name : Resin Bound PRO UVR Part B

REACH registration number : 01-2119485796-17-XXXX

EC Number : 931-274-8

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

Use of the substance/mixture : Raw material for industry

Recommended restrictions on use : Reserved for industrial and professional use

##### 1.3 Details of the supplier

Company : Resin Mill Ltd, Unit 7-8 The Ringway Centre,  
Beck Road, Huddersfield, HD1 5DG  
+44 (0) 1484 400855  
[sales@resinmill.co.uk](mailto:sales@resinmill.co.uk)

##### 1.4 Emergency telephone number

Emergency telephone number : +44 (0) 1484 400855 Mon-Friday 8am-5pm

#### SECTION 2: Hazards identification

##### 2.1 Substances classification (EC1272/2008)

Physical hazards : Not classified

Health hazards : Acute Tox. 4 – H332 Skin Sens. 1 – H317 STOT SE 3 –H335

Environmental Hazards : Not classified

Classification (67/548/EEC : Xn; R20. Xi; R37 . R43  
or 1999/45/EC)

##### 2.2 Label Elements

EC Number : 931-274-8

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#### Pictogram



|                                |                                                                                                                                                                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word                    | : Warning                                                                                                                                                                                                                                                                                                                   |
| Hazard statements              | : H317 May cause an allergic skin reaction<br>: Harmful if inhaled<br>: H335 May cause respiratory irritation                                                                                                                                                                                                               |
| Precautionary statements       | : P261 Avoid breathing vapour/spray<br>: P280 Wear protective gloves/protective clothing, eye protection/face protection<br>P302+P352 IF ON SKIN: Wash with water.<br>P312 Call a poison centre or doctor if unwell.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P405 Store locked up. |
| Supplemental label information | : EUH204 Contains isocyanates. May produce an allergic reaction.                                                                                                                                                                                                                                                            |
| Contains                       | : HEXAMETHYLENE DIISOCYANATE<br>OLIGOMERS ISOCYANURATE TYPE                                                                                                                                                                                                                                                                 |

#### 2.3 Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

### SECTION 3: Composition/Information on ingredients

#### 3.1 Substances

|                                                               |                      |                              |
|---------------------------------------------------------------|----------------------|------------------------------|
| <b>HEXAMETHYLENE DIISOCYANATE OLIGOMERS ISOCYANURATE TYPE</b> |                      | <b>60-100%</b>               |
| CAS number: -                                                 | EC Number: 931-274-8 | REACH: 01-2119485796-17-XXXX |

#### Classification

Acute Tox. 4 - H332  
Skin Sens. 1 - H317  
STOT SE 3 - H335

#### Classification (67/548/EEC or 1999/45/EC)

Xn; R20 Xi; R37 . R43

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The full text for all R-Phrases and hazard statements are displayed in Section 16.

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| Product name      | : HEXAMETHYLENE DIISOCYANATE<br>OLIGOMERS ISOCYANURATE TYPE |
| REACH reg. number | : 01-2119485796-17-XXXX                                     |
| EC Number         | :931-274-8                                                  |

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

|                            |                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection of first aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists, refer to Section 8 for specific personal protective equipment. |
| If inhaled                 | : If inhaled, seek fresh air. If symptoms persist, call a doctor. If breathing is difficult, a trained professional may administer oxygen. Seek medical attention.                                           |
| In case of skin contact    | : Wash off with soap and water.                                                                                                                                                                              |
| In case of eye contact     | : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing for 15 minutes.                                                                         |
| If swallowed               | : Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a doctor.                                                                                                                       |

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

|              |                                                         |
|--------------|---------------------------------------------------------|
| Inhalation   | : Harmful if inhaled, irritating to respiratory system. |
| Skin contact | : May cause allergic skin reaction.                     |

##### 4.3 Indication of any immediate medical attention and special treatment required

|           |                         |
|-----------|-------------------------|
| Treatment | : Treat symptomatically |
|-----------|-------------------------|

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#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing Media

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

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

Specific hazards during firefighting : Do not use water jet as an extinguisher.

##### 5.3 Advice for firefighters

Special protective equipment for fire fighters : Wear full protective clothing and self contained breathing apparatus.

#### SECTION 6: Accidental release measures

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

Personal precautions : Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Material can create slippery conditions.  
Avoid contact with skin and eyes, avoid inhalation of vapours.

##### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth).  
Keep in suitable closed containers for disposal.

##### 6.4 Reference to other sections

Refer to protective measures listed in sections 8.  
For disposal considerations see section 13.

#### SECTION 7: Handling and storage

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#### 7.1 Precautions for safe handling

|                                        |                                                                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Usage precautions                      | : Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.                                                                                                                                                                                       |
| Advice on general occupational hygiene | : Do no eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. |

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

|                     |                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage precautions | : Store in tightly-closed, original container in a dry and cool place. Keep away from food, drink and animal feeding stuffs. Avoid exposure to high temperatures or direct sunlight. Store away from the following materials: Water, moisture. Acids, Alkalis, Amines. Oxidising agents. Alcohols. |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 7.3 Specific end use(s)

|                 |                               |
|-----------------|-------------------------------|
| Specific use(s) | : Identified in section 1.2.. |
|-----------------|-------------------------------|

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

|                     |                                               |
|---------------------|-----------------------------------------------|
| Ingredient Comments | : No exposure limits known for ingredient(s). |
|---------------------|-----------------------------------------------|

**DNEL**                      Workers – Inhalation; Long term effects: 0.5mg/m<sup>3</sup>  
Workers – Inhalation; Short term effects: 1mg/m<sup>3</sup>

**PNEC**                      - Fresh water; 0.127mg/l  
- Marine water; 0.0127 mg/l  
- Intermittent release; 1.27 mg/l  
- Sediment (Freshwater); 266700 mg/kg  
- Sediment (Marinewater); 266700 mg/kg  
- STP; 38.3 mg/l  
- Soil; 53182 mg/kg

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#### 8.2 Exposure controls

##### Protective equipment



##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

##### Hand protection

Chemical resistant impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable gloves should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Butyl rubber. Neoprene. Thickness: 0.5mm Nitrile rubber. Thickness: 0.35mm The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.

##### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

##### Hygiene measures

When using do not eat, drink or smoke. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Wash at the end of each work shift and before eating, smoking and using the toilet.

##### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Combination filter, type A2/P2. EN 136/140/145/143/149

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : Clear to pale yellow

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|                              |                               |
|------------------------------|-------------------------------|
| Odour                        | : Slight                      |
| Odour threshold              | : Not relevant                |
| pH                           | : Not applicable              |
| Melting point/freezing point | : -24 °C                      |
| Flash point                  | : 158 °C                      |
| Evaporation rate             | : No data available           |
| Upper explosion rate         | : No data available           |
| Lower explosion rate         | : No data available           |
| Vapour pressure              | : 0.00246 Pa @ 20 °C          |
| Relative vapour density      | : No data available           |
| Bulk density                 | : ~ 1160 kg/m <sup>3</sup>    |
| Solubility                   | : Insoluble in water.         |
| Partition coefficient:       | : Not applicable              |
| Auto-ignition temperature    | : 445 °C                      |
| Decomposition temperature    | : 250 °C                      |
| Viscosity                    | : 1,750 – 3,250 mPa.s (25 °C) |

#### 9.2 Other information

|                      |                            |
|----------------------|----------------------------|
| Dust explosion class | : No data available        |
| Oxidizing potential  | : No information available |

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Stable under recommended storage conditions.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

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#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available

#### 10.5 Incompatible materials

Materials to avoid : No data available

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : No data available  
No hazardous decomposition products are known.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

###### Product:

Acute oral toxicity : LD50 >2500 mg/kg, Oral, Rat

Acute inhalation toxicity : LD50 390 – 543 mg/m<sup>3</sup>, Inhalation, Rat

Acute dermal toxicity : LD50 >2000 mg/kg, Dermal, Rat

ATE inhalation (dusts/mists mg/l) : 1.58

##### Skin corrosion/irritation

###### Product:

Slightly irritating. Rabbit

##### Serious eye damage/eye irritation

###### Product:

Slightly irritating. Rabbit

##### Respiratory or skin sensitisation

###### Product:

Not sensitising. Guinea pig.

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#### Germ cell mutagenicity

**Product:**

Germ cell mutagenicity assessment : Negative

#### Carcinogenicity

**Product:**

Carcinogenicity assessment : Not classified due to lack of data.

#### Reproductive toxicity

**Product:**

Reproductive toxicity assessment : Not classified due to lack of data.

#### STOT – single exposure

**Product:**

Assessment: Not classified due to lack of data.

#### STOT – repeated exposure

**Product:**

Assessment: NOAEL 3.3 mg/m<sup>3</sup>, Inhalation, Rat

#### Aspiration toxicity

**Product:**

Not classified due to lack of data.

#### Further information

**Product:**

Inhalation : Harmful if inhaled, irritating to respiratory system.

Ingestion : May cause discomfort if swallowed.

Skin contact : May cause an allergic reaction. Prolonged skin contact may cause temporary irritation.

Eye contact : May cause temporary eye irritation.

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#### SECTION 12: Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

##### 12.1 Toxicity

|                                        |                                                             |
|----------------------------------------|-------------------------------------------------------------|
| Acute toxicity – fish                  | : LC50, 96 hours: > 100mg/l, Brachydanio rerio (Zebra Fish) |
| Acute toxicity – aquatic invertebrates | : EC50, 48 hours: 127 mg/l Daphnia magna                    |
| Acute toxicity – aquatic plants        | : IC50, 72 hours: > 1000 mg/l, Scenedesmus subspicatus      |
| Acute toxicity – microorganisms        | : EC50, 3 hours: 3828 mg/l, Activated sludge                |

##### 12.2 Persistence and degradability

**Product:**

Biodegradability : Degradation (%) 1%: 28 days

##### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

##### 12.4 Mobility in soil

**Product:**

Mobility : Immiscible with water.

##### 12.5 Results of PBT and vPvB assesment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB)

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#### 12.6 Other adverse effects

**Product:**

Other adverse effects

: No information available

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

Product:

: Dispose of wastes in an approved waste disposal facility. In accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging

: Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

#### SECTION 14: Transport information

##### 14.1 UN number

Not regulated as a dangerous good.

##### 14.2 UN proper shipping name

Not regulated as a dangerous good.

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

Not regulated as a dangerous good.

##### 14.4 Packaging group

Not regulated as a dangerous good.

##### 14.5 Environmental hazards

Not regulated as a dangerous good.

##### 14.6 Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport regulations.

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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable for product as supplied.

#### SECTION 15: Regulatory information

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

###### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and the council of 18 December 2006 concerning the registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

No information available.