

# ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

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## Material Safety Data Sheet

# Rigid Polyurethane Foam (Part A)

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

#### 1.1. Product identifier

**Product name:** EUROFOAM R002 PART A

**Product code:** EUROFOAM R002 A

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

**Use of substance / mixture:** PC32: Polymer preparations and compounds.

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

**Company name:** Europol  
Unit 11, RockHill Estates  
Wellsway  
Keynsham  
Bristol  
BS31 1PD  
United Kingdom  
**Tel:** +44 (0)117 9550448  
**sales@europoluk.com**

**Email:**

#### 1.4. Emergency telephone number

**Emergency tel:** +44 (0)117 9550448  
(office hours only)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Acute Tox. 4: H302; Eye Irrit. 2: H319

**Most important adverse effects:** Harmful if swallowed. Causes serious eye irritation.

#### 2.2. Label elements

**Label elements:**

**Hazard statements:** H302: Harmful if swallowed.  
H319: Causes serious eye irritation.

**Hazard pictograms:** GHS07: Exclamation mark



**Signal words:** Warning

**Precautionary statements:** P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P330: Rinse mouth.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

### Section 3: Composition/information on ingredients

#### 3.2. Mixtures

**Hazardous ingredients:**

| EINECS                           | CAS        | PBT / WEL | CLP Classification | Percent |
|----------------------------------|------------|-----------|--------------------|---------|
| -                                | 25791-96-2 | -         | Acute Tox. 4: H302 | >20%    |
| 1,1'-(PHENYLIMINO)BIS-2-PROPANOL | 3077-13-2  | -         | Eye Irrit. 2: H319 | >20%    |
| 221-360-7                        |            |           |                    |         |

## Section 4: First aid measures

### 4.1. Description of first aid measures

- Skin contact:** Wash immediately with plenty of soap and water.  
**Eye contact:** Bathe the eye with running water for 15 minutes.  
**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

- Skin contact:** There may be mild irritation at the site of contact.  
**Eye contact:** There may be irritation and redness.  
**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.  
**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.  
**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

- Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

- Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

- Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

- Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

- Handling requirements:** Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

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

- Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

- Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

- Workplace exposure limits:** No data available.

#### DNEL/PNEC Values

- DNEL / PNEC No data available.

### 8.2. Exposure controls

- Respiratory protection:** Respiratory protection not required.  
**Hand protection:** Protective gloves.  
**Eye protection:** Safety glasses. Ensure eye bath is to hand.  
**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

- State:** Liquid  
**Colour:** Colourless  
**Odour:** Characteristic odour  
**Relative density:** 1.05

### 9.2. Other information

- Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

- Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

- Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

#### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

**Hazardous ingredients:**

**GLYCEROL, PROPOXYLATED**

DERMAL RAT LD50 >2000 mg/kg

**1,1'-(PHENYLIMINO)BIS-2-PROPANOL**

DERMAL RBT LD50 >2000 mg/kg

**Relevant hazards for product:**

Hazard Route Basis

Acute toxicity (ac. tox. 4) ING Hazardous: calculated

Serious eye damage/irritation OPT Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

### Section 12: Ecological information

#### 12.1. Toxicity

**Ecotoxicity values:** No data available.

#### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

#### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

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

**PBT identification:** This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

### Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

#### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

#### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

#### Phrases used in s.2 and s.3:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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## Material Safety Data Sheet

# Rigid Polyurethane Foam (Part B)

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

#### 1.1. Product identifier

**Product name:** EUROFOAM R002 PART B  
**Product code:** R002 B

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

**Use of substance / mixture:** PC32: Polymer preparations and compounds.

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

**Company name:** Europol  
Unit 11, RockHill Estates  
Wellsway  
Keynsham  
Bristol  
BS31 1PD  
United Kingdom  
**Tel:** +44 (0)117 9550448  
**Email:** sales@europoluk.com

#### 1.4. Emergency telephone number

**Emergency tel:** +44 (0)117 9550448  
(office hours only)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Eye Irrit. 2: H319; Acute Tox. 4: H332; Carc. 2: H351; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335

**Most important adverse effects:** 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.

#### 2.2. Label elements

##### Label elements:

##### Hazard statements:

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.  
GHS07: Exclamation mark  
GHS08: Health hazard

##### Hazard pictograms:



##### Signal words: Danger

##### Precautionary statements:

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+352: IF ON SKIN: Wash with plenty of water/  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.

#### 2.3. Other hazards

**Other hazards:**  
**PBT:**

Danger of serious damage to health by prolonged exposure.  
This product is not identified as a PBT/vPvB substance.

### Section 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

| EINECS | CAS       | PBT / WEL | CLP Classification  | Percent |
|--------|-----------|-----------|---|---------|
| -      | 9016-87-9 | -         | Carc. 2: H351; Acute Tox. 4: H332;<br><br>STOT RE 2: H373; Eye Irrit. 2: H319;<br>STOT SE 3: H335; Skin Irrit. 2: H315;<br>Resp. Sens. 1: H334; Skin Sens. 1:<br>H317 | >20%    |

|   |          |   |   |      |
|---|----------|---|---|------|
| DIPHENYLMETHANE-4,4'-DI-ISOCYANATE - REACH registered number(s): 01-2119457014- 47<br>202-966-0 | 101-68-8 | - | Carc. 2: H351; Acute Tox. 4: H332;<br>STOT RE 2: H373; Eye Irrit. 2: H319;<br>STOT SE 3: H335; Skin Irrit. 2: H315;<br>Resp. Sens. 1: H334; Skin Sens. 1:<br>H317 | >20% |
|---|----------|---|---|------|

### Section 4: First aid measures

#### 4.1. Description of first aid measures

|                      |  |
|----------------------|--|
| <b>Skin contact:</b> | Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. |
| <b>Eye contact:</b>  | Bathe the eye with running water for 15 minutes. Consult a doctor.   |
| <b>Ingestion:</b>    | Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.  |
| <b>Inhalation:</b>   | Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.   |

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

|                      |  |
|----------------------|--|
| <b>Skin contact:</b> | There may be mild irritation at the site of contact.   |
| <b>Eye contact:</b>  | There may be irritation and redness.   |
| <b>Ingestion:</b>    | There may be soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. |
| <b>Inhalation:</b>   | There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.                        |

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Not applicable.

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

**Exposure hazards:** In combustion emits toxic fumes.

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. If outside keep bystanders upwind and away from danger point. Evacuate the area immediately.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

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

**Clean-up procedures:** Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

#### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

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

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Hazardous ingredients:

**DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)**

Workplace exposure limits: Respirable dust

|       |                        |                        |            |              |
|-------|------------------------|------------------------|------------|--------------|
| State | 8 hour TWA             | 15 min. STEL           | 8 hour TWA | 15 min. STEL |
| UK    | 0.02 mg/m <sup>3</sup> | 0.07 mg/m <sup>3</sup> | -          | -            |

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

|    |                        |                        |   |   |
|----|------------------------|------------------------|---|---|
| UK | 0.02 mg/m <sup>3</sup> | 0.07 mg/m <sup>3</sup> | - | - |
|----|------------------------|------------------------|---|---|

#### DNEL/PNEC Values

DNEL / PNEC No data available.

### 8.2. Exposure controls

|                                |   |
|--------------------------------|---|
| <b>Engineering measures:</b>   | Ensure there is sufficient ventilation of the area.                                 |
| <b>Respiratory protection:</b> | Self-contained breathing apparatus must be available in case of emergency.          |
| <b>Hand protection:</b>        | Impermeable gloves.   |
| <b>Eye protection:</b>         | Safety glasses. Ensure eye bath is to hand.   |
| <b>Skin protection:</b>        | Impermeable protective clothing.  |
| <b>Environmental:</b>          | The floor of the storage room must be impermeable to prevent the escape of liquids. |

## Section 9: Physical and chemical properties

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

|                             |                          |
|-----------------------------|--------------------------|
| <b>State:</b>               | Liquid                   |
| <b>Colour:</b>              | Brown                    |
| <b>Odour:</b>               | Barely perceptible odour |
| <b>Evaporation rate:</b>    | Negligible               |
| <b>Solubility in water:</b> | Reacts with water.       |
| <b>Relative density:</b>    | 1.25                     |

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Hot surfaces. Flames.

### 10.5. Incompatible materials

**Materials to avoid:** Water. Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients:

**DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)**

|     |     |      |             |
|-----|-----|------|-------------|
| ORL | RAT | LD50 | 49 gm/kg    |
| SKN | RBT | LD50 | >9400 mg/kg |

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

|     |     |      |            |
|-----|-----|------|------------|
| ORL | MUS | LD50 | 2200 mg/kg |
| ORL | RAT | LD50 | 9200 mg/kg |

#### Relevant hazards for product:

| Hazard                                   | Route   | Basis                 |
|--|---------|-----------------------|
| Acute toxicity (ac. tox. 4)              | INH     | Hazardous: calculated |
| Skin corrosion/irritation                | DRM     | Hazardous: calculated |
| Serious eye damage/irritation            | OPT     | Hazardous: calculated |
| Respiratory/skin sensitisation           | INH DRM | Hazardous: calculated |
| Carcinogenicity -- Hazardous: calculated |         |                       |
| STOT-single exposure                     | INH     | Hazardous: calculated |
| STOT-repeated exposure                   | -       | Hazardous: calculated |

#### Symptoms / routes of exposure

|                                     |  |
|-------------------------------------|--|
| <b>Skin contact:</b>                | There may be mild irritation at the site of contact.   |
| <b>Eye contact:</b>                 | There may be irritation and redness.   |
| <b>Ingestion:</b>                   | There may be soreness and redness of the mouth and throat. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. |
| <b>Inhalation:</b>                  | There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.                        |
| <b>Delayed / immediate effects:</b> | Immediate effects can be expected after short-term exposure.   |

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.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 <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

**Compilation date:** 20/02/2017

**Revision No:** 1

**MSDS:** 410-045 Rigid polyurethane foam 002 pats A and B