



## SAFETY DATA SHEET ARDEX R 5 E PART B

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

#### 1.1. Product identifier

**Product name** ARDEX R 5 E PART B

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

**Identified uses** 2 Part Epoxy Primer

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

**Supplier** Ardex UK Limited  
Homefield Road  
Haverhill  
Suffolk  
CB9 8QP  
01440 714939

**Contact person** safetydatasheets@ardex.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 870 190 6777 (24 hours)

**National emergency telephone number** ROI:- +353 (0)1 809 2166 (available 8am-10pm, 7 days)

### SECTION 2: Hazards identification

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

##### Classification (SI 2019 No. 720)

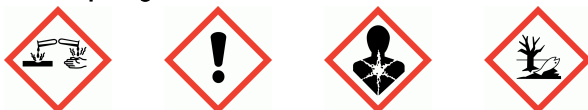
**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT SE 3 - H335

**Environmental hazards** Aquatic Chronic 2 - H411

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Danger

**Hazard statements** H332 Harmful if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P102 Keep out of reach of children.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P273 Avoid release to the environment.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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<b>Contains</b>	<p>4-TERT-BUTYLPHENOL, M-PHENYLENEBIS(METHYLAMINE), Polymer, trimethylhexane-1,6-diamine, Phenol, styrenated, Fatty acids, C18 unsat, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, BENZYL ALCOHOL, 3-AMINOPROPYLDIMETHYLAMINE</p>
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### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>4-TERT-BUTYLPHENOL</b>	<b>30-60%</b>
CAS number: 98-54-4                      EC number: 202-679-0 M factor (Chronic) = 1	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Repr. 2 - H361 Aquatic Chronic 1 - H410	
<b>Polymer</b>	<b>10-30%</b>
CAS number: —	
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	
<b>M-PHENYLENEBIS(METHYLAMINE)</b>	<b>10-30%</b>
CAS number: 1477-55-0                      EC number: 216-032-5	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	

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<b>trimethylhexane-1,6-diamine</b>	<b>5-10%</b>
CAS number: 25513-64-8	
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	
<b>Phenol, styrenated</b>	<b>5-10%</b>
CAS number: 61788-44-1	
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>Fatty acids, C18 unsat, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine</b>	<b>1-5%</b>
CAS number: 68082-29-1	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
<b>BENZYL ALCOHOL</b>	<b>1-5%</b>
CAS number: 100-51-6                      EC number: 202-859-9	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319	
<b>3-AMINOPROPYLDIMETHYLAMINE</b>	<b>&lt;1%</b>
CAS number: 109-55-7                      EC number: 203-680-9	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

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<b>Inhalation</b>	Remove affected person from source of contamination. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Continue to rinse for at least 15 minutes. Get medical attention. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

**General information** Get medical attention promptly if symptoms occur after washing.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** In case of fire, toxic and corrosive gases may be formed. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.

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

**Methods for cleaning up** Do not touch or walk into spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Do not discharge into drains or watercourses or onto the ground.

### 6.4. Reference to other sections

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**Reference to other sections** For personal protection, see Section 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Corrosive storage.

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

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### M-PHENYLENEBIS(METHYLAMINE) (CAS: 1477-55-0)

**PNEC** Fresh water; 0.94 mg/l  
marine water; 0.0094 mg/l

##### BENZYL ALCOHOL (CAS: 100-51-6)

**DNEL** Workers - Dermal; Long term : 9.5 mg/kg/day  
Workers - Inhalation; Long term : 90 mg/m<sup>3</sup>

**PNEC** Fresh water; 1 mg/l  
marine water; 0.1 mg/l

##### 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

**DNEL** Workers - Inhalation; Short term : 0.31 mg/m<sup>3</sup>

**PNEC** Fresh water; 0.84 mg/l  
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##### 3-AMINOPROPYLDIMETHYLAMINE (CAS: 109-55-7)

**DNEL** Workers - Inhalation; Short term : 9.8 mg/m<sup>3</sup>

**PNEC** Fresh water; 0.0535 mg/l  
marine water; 0.00535 mg/l

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

##### Eye/face protection

The following protection should be worn: Chemical splash goggles.

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<b>Hand protection</b>	Use protective gloves. It is recommended that gloves are made of the following material: Viton rubber (fluoro rubber). Nitrile rubber. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygiene measures</b>	Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Combination filter, type A2/P2.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Yellowish.
<b>Odour</b>	Amine.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	ca. 135°C
<b>Flash point</b>	ca. 86°C
<b>Vapour pressure</b>	0.3 hPa @ °C
<b>Solubility(ies)</b>	Not miscible or difficult to mix.
<b>Auto-ignition temperature</b>	380°C
<b>Viscosity</b>	600 mPa s @ 20°C
<b>Explosive properties</b>	Not considered to be explosive.

#### 9.2. Other information

<b>Other information</b>	No information required.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	No decomposition if used according to specifications.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	No further relevant information available.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents.
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### 10.6. Hazardous decomposition products

**Hazardous decomposition products**      Poisonous gases/vapours Corrosive gases/vapours

#### **SECTION 11: Toxicological information**

##### 11.1. Information on toxicological effects

###### Acute toxicity - oral

ATE oral (mg/kg)                      2,760.73

###### Acute toxicity - inhalation

ATE inhalation (gases ppm)      257,142.86

ATE inhalation (vapours mg/l)    11.99

ATE inhalation (dusts/mists  
mg/l)                                      85.71

#### **SECTION 12: Ecological information**

##### 12.1. Toxicity

##### 12.2. Persistence and degradability

##### 12.3. Bioaccumulative potential

##### 12.4. Mobility in soil

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

##### 12.6. Other adverse effects

#### **SECTION 13: Disposal considerations**

##### 13.1. Waste treatment methods

**Disposal methods**                      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### **SECTION 14: Transport information**

##### 14.1. UN number

UN No. (ADR/RID)                      2735

UN No. (IMDG)                            2735

UN No. (ICAO)                            2735

UN No. (ADN)                              2735

##### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)**      AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS M-PHENYLENEBIS(METHYLAMINE), 4-TERT-BUTYLPHENOL)

**Proper shipping name (IMDG)**      AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS M-PHENYLENEBIS(METHYLAMINE), 4-TERT-BUTYLPHENOL, Phenol, styrenated, Fatty acids, C18 unsat, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)

**Proper shipping name (ICAO)**      AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS M-PHENYLENEBIS(METHYLAMINE), 4-TERT-BUTYLPHENOL)

**Proper shipping name (ADN)**      AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS M-PHENYLENEBIS(METHYLAMINE), 4-TERT-BUTYLPHENOL)

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

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ADR/RID class	8
ADR/RID classification code	C7
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

**Transport labels****14.4. Packing group**

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

**14.6. Special precautions for user**

IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**



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<b>Revision comments</b>	3
<b>Issued by</b>	UK Regulatory and Product Compliance Officer
<b>Revision date</b>	07/09/2022
<b>Supersedes date</b>	30/05/2018
<b>SDS number</b>	20395
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn child. H361 Suspected of damaging fertility or the unborn child by inhalation. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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