



## SAFETY DATA SHEET ARDEX R 3 E Part A

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

#### 1.1. Product identifier

**Product name** ARDEX R 3 E Part A

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

**Identified uses** Primer.

**Uses advised against** No specific uses advised against are identified.

#### 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)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

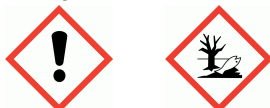
**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** Irritating to eyes and skin. May cause sensitisation by skin contact.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</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>P321 Specific treatment (see medical advice on this label).</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	EPOXY RESIN (Number average MW ≤ 700 ), BISPHENOL F EPICHLOROHYDRIN RESIN, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS
<b>Supplementary precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>EPOXY RESIN (Number average MW ≤ 700 )</b>	<b>50-100%</b>
CAS number: 25068-38-6	EC number: 500-033-5
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>BISPHENOL F EPICHLOROHYDRIN RESIN</b>	<b>25-50%</b>
CAS number: 28064-14-4	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</b>	<b>10-25%</b>
CAS number: 68609-97-2	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	

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>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<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

<b>General information</b>	No further information available.
<b>Inhalation</b>	This product is strongly irritating.
<b>Ingestion</b>	Nausea, vomiting.
<b>Skin contact</b>	The product contains a sensitising substance.
<b>Eye contact</b>	Irritating and may cause redness and pain.

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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
<b>Hazardous combustion products</b>	Does not decompose when used and stored as recommended.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Fight fire from safe distance or protected location.
<b>Special protective equipment for firefighters</b>	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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid or minimise the creation of any environmental contamination.
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### 6.3. Methods and material for containment and cleaning up

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**Methods for cleaning up** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Clean contaminated objects and areas thoroughly, observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes.

### 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** Chemical 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

#### EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

<b>DNEL</b>	Professional - Dermal; Short term systemic effects: 8.3 mg/kg/day Professional - Inhalation; Short term systemic effects: 12.3 mg/m <sup>3</sup> Professional - Dermal; Long term systemic effects: 8.3 mg/kg/day Professional - Inhalation; Long term systemic effects: 12.3 mg/m <sup>3</sup> Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day Consumer - Inhalation; Short term systemic effects: 0.75 mg/m <sup>3</sup> Consumer - Oral; Short term systemic effects: 0.75 mg/kg/day Consumer - Dermal; Long term systemic effects: 3.6 mg/kg/day General population - Inhalation; Long term systemic effects: 0.75 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 0.75 mg/kg/day
<b>PNEC</b>	Fresh water; 0.006 mg/l Marine water; 0.0006 mg/l

#### BISPHENOL F EPICHLOROHYDRIN RESIN (CAS: 28064-14-4)

<b>DNEL</b>	Workers - Dermal; Short term : 29.39 mg/m <sup>3</sup> Workers - Dermal; Short term : 104.15 mg/kg/day
<b>PNEC</b>	Fresh water; 0.003 mg/l Marine water; 0.0003 mg/l

#### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS (CAS: 68609-97-2)

<b>DNEL</b>	Workers - Dermal; Short term : 3.9 mg/kg/day Workers - Inhalation; Short term : 13.8 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 0.0072 mg/l Marine water; 0.00072 mg/l

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### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). Thickness:  $\geq 0.1$  mm The selected gloves should have a breakthrough time of at least 8 hours.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. It is recommended to use respiratory equipment with combination filter, type A2/P2.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Liquid.
Colour	Yellowish.
Odour	Characteristic.
pH	pH (concentrated solution): 8-9
Initial boiling point and range	200°C
Flash point	>100°C
Relative density	1.12 g/cm <sup>3</sup>
Solubility(ies)	Not miscible or difficult to mix
Auto-ignition temperature	>350°C
Viscosity	700 mPa s @ 25°C
Explosive properties	Product is not explosive.

### 9.2. Other information

Other information	No information required.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

Stability	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**      Not determined.

### 10.4. Conditions to avoid

**Conditions to avoid**      Avoid excessive heat for prolonged periods of time. Avoid contact with acids. Strong oxidising agents.

### 10.5. Incompatible materials

**Materials to avoid**      Strong acids. Strong alkalis.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products**      Does not decompose when used and stored as recommended. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Inhalation**      No significant hazard at normal ambient temperatures. Heating may generate the following products: Toxic gases or vapours.

**Ingestion**      Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

**Skin contact**      May cause sensitisation by skin contact.

**Eye contact**      Irritating to eyes.

**Acute and chronic health hazards**      May cause respiratory system irritation. May cause sensitisation by skin contact. The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

**Route of exposure**      Inhalation Skin absorption Skin and/or eye contact

**Target organs**      No specific target organs known.

### Toxicological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)**      11,400.0

**Species**      Rat

**ATE oral (mg/kg)**      11,400.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)**      2,000.0

**Species**      Rabbit

**Skin contact**      Slightly irritating.

#### BISPHENOL F EPICHLOROHYDRIN RESIN

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<b>Inhalation</b>	No significant hazard at normal ambient temperatures. Heating may generate the following products: Harmful gases or vapours.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Slightly irritating. May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritating to eyes.

### OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

#### Acute toxicity - oral

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	26,800.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	26,800.0

## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 )

##### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1.3 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 2.1 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	LC <sub>50</sub> , 72 hours: 11 mg/l, Algae
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - fish early life stage</b>	LC <sub>50</sub> , 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: 0.3 mg/l, Daphnia magna

#### BISPHENOL F EPICHLOROHYDRIN RESIN

**Toxicity** Toxic to aquatic life.

### OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1800 mg/l, Lepomis macrochirus (Bluegill) LC <sub>50</sub> , 96 hours: >5000 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 7.2 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 844 mg/l, Selenastrum capricornutum

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

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### EPOXY RESIN (Number average MW <= 700 )

**Persistence and degradability** Not expected to be readily biodegradable.

### BISPHENOL F EPICHLOROHYDRIN RESIN

**Persistence and degradability** Not expected to be readily biodegradable.

### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

**Biodegradation** The substance is readily biodegradable.

#### 12.3. Bioaccumulative potential

##### Ecological information on ingredients.

### EPOXY RESIN (Number average MW <= 700 )

**Bioaccumulative potential** BCF: 3-31,

**Partition coefficient** Partition coefficient, n-octanol/water log Pow 3.2 estimated.

### BISPHENOL F EPICHLOROHYDRIN RESIN

**Bioaccumulative potential** BCF: 100-3000,

### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

**Bioaccumulative potential** Moderate potential for bioaccumulation. BCF: ~ 160-263, Fish, Estimated value.

**Partition coefficient** Partition coefficient, n-octanol/water log Pow 3.77: OECD 107 test: shake flask method.

#### 12.4. Mobility in soil

##### Ecological information on ingredients.

### EPOXY RESIN (Number average MW <= 700 )

**Adsorption/desorption coefficient** Expected to have a low potential for adsorption.

### BISPHENOL F EPICHLOROHYDRIN RESIN

**Adsorption/desorption coefficient** Not available.

### OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

**Mobility** Not considered mobile.

**Adsorption/desorption coefficient** Koc >5000 OECD 121: HPLC method.

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

##### Ecological information on ingredients.

### EPOXY RESIN (Number average MW <= 700 )



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**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### BISPHENOL F EPICHLOROHYDRIN RESIN

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### OXIRANE, MONO [(C12-14- ALKYL)OXY]METHYL] DERIVS

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 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

<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (ADN)</b>	3082

##### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), BISPHENOL F EPICHLOROHYDRIN RESIN)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), BISPHENOL F EPICHLOROHYDRIN RESIN)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), BISPHENOL F EPICHLOROHYDRIN RESIN)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), BISPHENOL F EPICHLOROHYDRIN RESIN)

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

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9

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## Transport labels

14.4. Packing group

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

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
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

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

Revision comments	1
Issued by	Research and Development Manager
Revision date	25/04/2018

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<b>SDS number</b>	20360
<b>Hazard statements in full</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.