



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)

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 (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

Hazard pictograms



Signal word Warning

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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.
Precautionary statements	P102 Keep out of reach of children. P261 Avoid breathing vapour/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see medical advice on this label). P501 Dispose of contents/ container in accordance with national regulations.
Contains	EPOXY RESIN (Number average MW ≤ 700), BISPHENOL F EPICHLOROHYDRIN RESIN, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	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.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	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	No further information available.
Inhalation	This product is strongly irritating.
Ingestion	Nausea, vomiting.
Skin contact	The product contains a sensitising substance.
Eye contact	Irritating and may cause redness and pain.

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

5.3. Advice for firefighters

Protective actions during firefighting	Fight fire from safe distance or protected location.
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.
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6.2. Environmental precautions

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Environmental precautions 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.

6.3. Methods and material for containment and cleaning up

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)

DNEL	Professional - Dermal; Short term systemic effects: 8.3 mg/kg/day Professional - Inhalation; Short term systemic effects: 12.3 mg/m ³ Professional - Dermal; Long term systemic effects: 8.3 mg/kg/day Professional - Inhalation; Long term systemic effects: 12.3 mg/m ³ Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day Consumer - Inhalation; Short term systemic effects: 0.75 mg/m ³ 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 ³ General population - Oral; Long term systemic effects: 0.75 mg/kg/day
PNEC	Fresh water; 0.003 mg/l marine water; 0.0003 mg/l

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

DNEL	Workers - Dermal; Short term : 29.39 mg/m ³ Workers - Dermal; Short term : 104.15 mg/kg/day
PNEC	Fresh water; 0.003 mg/l marine water; 0.0003 mg/l

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

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DNEL	Workers - Dermal; Short term : 3.9 mg/kg/day Workers - Inhalation; Short term : 13.8 mg/m ³
PNEC	Fresh water; 0.0072 mg/l marine water; 0.00072 mg/l

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: ≥ 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 ³
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

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Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

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 (CO₂).

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 (LD₅₀ mg/kg) 11,400.0

Species Rat

ATE oral (mg/kg) 11,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 20,000.0

Species Rabbit

ATE dermal (mg/kg) 20,000.0

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Skin contact Slightly irritating.

BISPHENOL F EPICHLOROHYDRIN RESIN

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

Ingestion Harmful if swallowed.

Skin contact Slightly irritating. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 26,800.0

Species Rat

ATE oral (mg/kg) 26,800.0

SECTION 12: Ecological information**12.1. Toxicity****Ecological information on ingredients.****EPOXY RESIN (Number average MW <= 700)****Acute aquatic toxicity**

Acute toxicity - fish LC₅₀, 96 hours: 1.3 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.1 mg/l, Daphnia magna

Acute toxicity - aquatic plants LC₅₀, 72 hours: 11 mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - fish early life stage LC₅₀, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates 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**

Acute toxicity - fish LC₅₀, 96 hours: 1800 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, 96 hours: >5000 mg/l, Oncorhynchus mykiss (Rainbow trout)

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Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 7.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 844 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Ecological information on ingredients.

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- ALKYLOXY)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- ALKYLOXY)METHYL] DERIVS

Bioaccumulative potential

Potentially bioaccumulating. BCF: ~ 160-263, Estimated value., Fish

Partition coefficient

Partition coefficient, n-octanol/water log Pow 3.77: OEECD 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- ALKYLOXY)METHYL] DERIVS

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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)

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
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BISPHENOL F EPICHLOROHYDRIN RESIN

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
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OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
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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.
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SECTION 14: Transport information

14.1. UN number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9

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IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels

14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN 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 information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). 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.
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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Revision comments	1
Issued by	Research and Development Manager
Revision date	25/04/2018
SDS number	20360
Hazard statements in full	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.

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.