



SAFETY DATA SHEET ARDEX R 6 E Part A

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

1.1. Product identifier

Product name ARDEX R 6 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

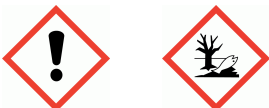
Environmental hazards Aquatic Chronic 2 - H411

Human health The liquid is irritating to eyes and skin. May cause skin sensitisation or allergic reactions in sensitive individuals.

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 | P261 Avoid breathing vapour/ spray. P102 Keep out of reach of children. 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 EPICHLOROXYDRIN RESIN, OXIRANE, MONO [(C12-14- ALKYL)OXY]METHYL] DERIVS, FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700 |
| 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) | 60-100% |
| 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 EPICHLOROXYDRIN RESIN | 10-30% |
| CAS number: 28064-14-4 | |
| Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411 | |

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| | |
|---|---------------|
| OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS | 5-10% |
| CAS number: 68609-97-2 | |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Skin Sens. 1 - H317 | |
| FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL, MW<700 | <1% |
| CAS number: 9003-36-5 | |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Skin Sens. 1 - H317 | |
| Aquatic Chronic 2 - H411 | |

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 specific recommendations. |
| 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. |
|-----------------------------|---|

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

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| 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.

6.2. Environmental precautions

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)

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| | |
|-------------|---|
| 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- ALKYLOXY)METHYL] DERIVS (CAS: 68609-97-2)

| | |
|-------------|---|
| 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

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| | |
|--|---------------------------------|
| Appearance | Liquid. |
| Colour | Orange. |
| 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) | Immiscible with water. |
| Auto-ignition temperature | >350°C |
| Viscosity | 700 mPa s @ 25°C |
| Explosive properties | Not considered to be explosive. |

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

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. |

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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

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- ALKYL OXY)METHYL] DERIVSAcute 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

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| | |
|---|--|
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 2.1 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | LC ₅₀ , 72 hours: 11 mg/l, Algae |
| <u>Chronic aquatic toxicity</u> | |
| Chronic toxicity - fish early life stage | LC ₅₀ , 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

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

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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

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.

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- ALKYLOXY)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

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

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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

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)

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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

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.

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 | 11/05/2018 |
| SDS number | 20398 |
| 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.