



SAFETY DATA SHEET

Ardex EG 18 Resin

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name Ardex EG 18 Resin

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

Identified uses As part of an epoxy resin based adhesive or grout.

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 UK and ROI:- 01865 407 333 (available 24/7/365)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

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

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

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Precautionary statements	<p>P102 Keep out of reach of children.</p> <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>P501 Dispose of contents/ container in accordance with national regulations.</p>
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS, BISPHENOL F EPICHLOROHYDRIN RESIN

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	60-100%
CAS number: 1675-54-3 EC number: 216-823-5	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS	5-10%
CAS number: 68609-97-2	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317	
BISPHENOL F EPICHLOROHYDRIN RESIN	5-10%
CAS number: 28064-14-4	
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.

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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 Not relevant.

Inhalation This product is strongly irritating.

Ingestion Not applicable.

Skin contact The product contains a sensitising substance.

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

Notes for the doctor Treat symptomatically.

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 Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Phenolic.

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 No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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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)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments WEL = Workplace Exposure Limits

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE (CAS: 1675-54-3)

DNEL Workers - Dermal; : 8.33 mg/kg/day
Workers - Inhalation; : 12.25 mg/m³

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

DNEL Workers - Dermal; Short term : 29.39 mg/m³
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)

DNEL Workers - Dermal; Short term : 3.9 mg/kg/day
Workers - Inhalation; Short term : 13.8 mg/m³

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

The following protection should be worn: Chemical splash goggles.

Hand protection

Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Viton rubber (fluoro rubber). Polyvinyl chloride (PVC). Protective gloves should have a minimum thickness of 0.5 mm.

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.

Respiratory protection

Wear a suitable dust mask. Combination filter, type A2/P2.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Various colours.
Odour	Characteristic.
pH	Not applicable.
Flash point	> 100°C Closed cup.
Solubility(ies)	Insoluble in water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

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

10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with acids.
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10.5. Incompatible materials

Materials to avoid	Amines, mercaptans, Lewis Acids, caustic soda, bases, ammonia, alcohols and acids.
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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 ₂).
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation	Irritating to respiratory system.
Ingestion	May cause stomach pain or vomiting.
Skin contact	May cause sensitisation by skin contact. Irritating to skin.
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

Toxicological information on ingredients.

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	15,000.0
Species	Rat
ATE oral (mg/kg)	15,000.0

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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 23,000.0
mg/kg)

Species Rabbit

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

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 26,800.0

BISPHENOL F EPICHLOROXYDRIN 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.

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients.

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 1.8 mg/l, Daphnia magna

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)

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

BISPHENOL F EPICHLOROXYDRIN RESIN

Toxicity Toxic to aquatic life.

Acute aquatic toxicity

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Acute toxicity - fish EC₅₀, 96 hour: 2.54 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hour: 2.55 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability No further relevant information available.

Ecological information on ingredients.

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

Biodegradation The substance is readily biodegradable.

BISPHENOL F EPICHLOROHYDRIN RESIN

Persistence and degradability Not expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

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.

BISPHENOL F EPICHLOROHYDRIN RESIN

Bioaccumulative potential BCF: 100-3000,

12.4. Mobility in soil

Mobility No further relevant information available

Ecological information on ingredients.

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

Mobility Not considered mobile.

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

BISPHENOL F EPICHLOROHYDRIN RESIN

Adsorption/desorption coefficient Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Ecological information on ingredients.

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

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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.

12.6. Other adverse effects

Other adverse effects Not available.

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.

Waste class 08 00 00 wastes from the manufacture, formulation, supply and use (MFSU) of coatings (peaints, varnishes, and vitreous enamels), adhesives, sealants and printing inks. 08 02 00 Wastes from MFSU of other coatings (including ceramic materials). 08 02 99 Wastes not otherwise specified.

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. (CONTAINS BISPHENOL F EPICHLOROHYDRIN RESIN)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL F EPICHLOROHYDRIN RESIN)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL F EPICHLOROHYDRIN RESIN)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 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

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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	(-)

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

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments	1
Issued by	Head of R+D
Revision date	20/12/2021
SDS number	20659
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.