



**SAFETY DATA SHEET
ARDEX DPM 1 C R Part A**

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

1.1. Product identifier

Product name ARDEX DPM 1 C R Part A

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

Identified uses Two part epoxy damp proof membrane

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 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

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>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>
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	EPOXY RESIN (Number average MW <= 700), BISPHENOL F EPICHLOROHYDRIN RESIN, Synthetic resin, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EPOXY RESIN (Number average MW <= 700)	10-30%
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	10-30%
CAS number: 28064-14-4	
Classification	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
Synthetic resin	1-5%
CAS number: 68512-30-1 EC number: 270-966-8	
Classification	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS	1-5%
CAS number: 68609-97-2	
Classification	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	

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N-METHYL-2-PYRROLIDONE	<1%
CAS number: 872-50-4	EC number: 212-828-1
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Repr. 1B - H360D	
STOT SE 3 - H335	
DI-ISOBUTYL KETONE	<1%
CAS number: 108-83-8	EC number: 203-620-1
Classification	
Flam. Liq. 3 - H226	
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

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

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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

Occupational exposure limits

N-METHYL-2-PYRROLIDONE

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 103 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 75 ppm(Sk) 309 mg/m³(Sk)

DI-ISOBUTYL KETONE

Long-term exposure limit (8-hour TWA): WEL 25 ppm 148 mg/m³

Short-term exposure limit (15-minute): WEL

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WEL = Workplace Exposure Limit.

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)

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

Eye/face protection

If risk of splashing, wear safety goggles or face shield.

Hand protection

Use suitable protective gloves if risk of skin contact. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Wash after use and before eating, smoking and using the toilet.

Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Thermal hazards

Not applicable.

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Environmental exposure controls Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Black.
Odour	Characteristic.
pH	pH (concentrated solution): 8-9
Initial boiling point and range	200°C
Flash point	>100°C
Relative density	1.4 - 1.5 @ 20°C
Solubility(ies)	Forms an emulsion with water.
Auto-ignition temperature	>350°C
Viscosity	700 mPa s @ 25°C

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

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

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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- ALKYLOXY)METHYL] DERIVS**Acute toxicity - oral**

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

Species Rat

ATE oral (mg/kg) 26,800.0

Polyether-modified polysiloxanes**Acute toxicity - inhalation**

ATE inhalation (vapours mg/l) 11.0

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

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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.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	EC ₅₀ , 96 hour: 2.54 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hour: 2.55 mg/l, Daphnia magna

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

2,6-di-tert-butyl-p-cresol

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

12.2. Persistence and degradability
Ecological information on ingredients.

EPOXY RESIN (Number average MW ≤ 700)

Persistence and degradability	Not expected to be readily biodegradable.
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BISPHENOL F EPICHLOROHYDRIN RESIN

Persistence and degradability	Not expected to be readily biodegradable.
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OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Biodegradation	The substance is readily biodegradable.
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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 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- 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)

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

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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
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 EPOXY RESIN (Number average MW <= 700), BISPHENOL F EPICHLOROHYDRIN RESIN)

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

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

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

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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****15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	3
Issued by	UK Regulatory and Product Compliance Officer
Revision date	07/09/2022
SDS number	20402
Hazard statements in full	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H360D May damage the unborn child. H411 Toxic to aquatic life with long lasting effects. H412 Harmful 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.