



SAFETY DATA SHEET ARDEX DPM 1 C Part A

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

1.1. Product identifier

Product name ARDEX DPM 1 C 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)
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

2.2. Label elements

Hazard pictograms



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.

Precautionary statements 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.
P313 Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

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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 | |
| 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 | |

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| | |
|---------------------------|----------------------|
| 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. |
|-----------------------------|---|

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. |

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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

WEL = Workplace Exposure Limit

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 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, gloves should comply with European Standard EN374.

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.

Environmental exposure controls

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

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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 (CO ₂). |
|----------------------------------|--|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information on ingredients.

EPOXY RESIN (Number average MW ≤ 700)

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 11,400.0

Species Rat

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ATE oral (mg/kg) 11,400.0

Acute toxicity - dermalAcute 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, FishAcute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.1 mg/l, Daphnia magnaAcute toxicity - aquatic plants LC₅₀, 72 hours: 11 mg/l, Algae**Chronic aquatic toxicity**

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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)

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

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

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 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.

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. (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

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 30/04/2018

SDS number 20370

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.