



## 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)

### 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

##### Pictogram



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  
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  $\leq$  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

<b>EPOXY RESIN (Number average MW <math>\leq</math> 700 )</b>	<b>10-30%</b>
CAS number: 25068-38-6                      EC number: 500-033-5	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>BISPHENOL F EPICHLOROHYDRIN RESIN</b>	<b>10-30%</b>
CAS number: 28064-14-4	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>Synthetic resin</b>	<b>1-5%</b>
CAS number: 68512-30-1                      EC number: 270-966-8	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
<b>OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS</b>	<b>1-5%</b>
CAS number: 68609-97-2	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
<b>N-METHYL-2-PYRROLIDONE</b>	<b>&lt;1%</b>
CAS number: 872-50-4                      EC number: 212-828-1	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Repr. 1B - H360D	
STOT SE 3 - H335	

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<b>DI-ISOBUTYL KETONE</b>	<b>&lt;1%</b>
CAS number: 108-83-8	EC number: 203-620-1
<b>Classification</b>	
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

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	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.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	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

<b>General information</b>	No further information available.
<b>Inhalation</b>	This product is strongly irritating.
<b>Ingestion</b>	Nausea, vomiting.
<b>Skin contact</b>	The product contains a sensitising substance.
<b>Eye contact</b>	Irritating and may cause redness and pain.

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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

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

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Fight fire from safe distance or protected location.
<b>Special protective equipment for firefighters</b>	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/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 75 ppm(Sk) 309 mg/m<sup>3</sup>(Sk)

##### **DI-ISOBUTYL KETONE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 148 mg/m<sup>3</sup>

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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<b>DNEL</b>	Professional - Dermal; Short term systemic effects: 8.3 mg/kg/day
	Professional - Inhalation; Short term systemic effects: 12.3 mg/m <sup>3</sup>
	Professional - Dermal; Long term systemic effects: 8.3 mg/kg/day
	Professional - Inhalation; Long term systemic effects: 12.3 mg/m <sup>3</sup>
	Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day
	Consumer - Inhalation; Short term systemic effects: 0.75 mg/m <sup>3</sup>
	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 <sup>3</sup>
General population - Oral; Long term systemic effects: 0.75 mg/kg/day	
<b>PNEC</b>	Fresh water; 0.006 mg/l
	Marine water; 0.0006 mg/l

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

<b>DNEL</b>	Workers - Dermal; Short term : 29.39 mg/m <sup>3</sup>
	Workers - Dermal; Short term : 104.15 mg/kg/day
<b>PNEC</b>	Fresh water; 0.003 mg/l
	Marine water; 0.0003 mg/l

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

<b>DNEL</b>	Workers - Dermal; Short term : 3.9 mg/kg/day
	Workers - Inhalation; Short term : 13.8 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 0.0072 mg/l
	Marine water; 0.00072 mg/l

**8.2. Exposure controls****SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

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

**9.2. Other information**

<b>Other information</b>	No information required.
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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## ARDEX DPM 1 C Part A

### 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<sub>2</sub>).

## 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 (LD<sub>50</sub> mg/kg)** 11,400.0

**Species** Rat

**ATE oral (mg/kg)** 11,400.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

**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

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Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 26,800.0

Species Rat

ATE oral (mg/kg) 26,800.0

Polyether-modified polysiloxanesAcute toxicity - inhalation

ATE inhalation (vapours  
mg/l) 11.0

## SECTION 12: Ecological Information

12.1. ToxicityEcological information on ingredients.EPOXY RESIN (Number average MW <= 700 )Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1.3 mg/l, Fish

Acute toxicity - aquatic  
invertebrates EC<sub>50</sub>, 48 hours: 2.1 mg/l, Daphnia magna

Acute toxicity - aquatic  
plants LC<sub>50</sub>, 72 hours: 11 mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - fish early  
life stage LC<sub>50</sub>, 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] DERIVSAcute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1800 mg/l, Lepomis macrochirus (Bluegill)  
LC<sub>50</sub>, 96 hours: >5000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic  
invertebrates EC<sub>50</sub>, 48 hours: 7.2 mg/l, Daphnia magna

Acute toxicity - aquatic  
plants EC<sub>50</sub>, 72 hours: 844 mg/l, Selenastrum capricornutum

2,6-di-tert-butyl-p-cresolAcute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

## ARDEX DPM 1 C Part A

### 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** Moderate potential for bioaccumulation. BCF: ~ 160-263, Fish, Estimated value.

**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



## ARDEX DPM 1 C Part A

### 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

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

##### 14.2. UN proper shipping name

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

##### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9

## ARDEX DPM 1 C Part A

## Transport labels

**14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO 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 information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

**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

## ARDEX DPM 1 C Part A

<b>SDS number</b>	20370
<b>Hazard statements in full</b>	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.