Revision Date 26/04/2017
Revision 6
Supersedes date 20/04/2016

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 expoxy damp proof membrane

1.3. Details of the supplier of the safety data sheet

Supplier
Ardex UK Limited
Homefield Road
Haverhill
Suffolk
CB9 8QP
Tel. 01440 714939
Fax. 01440 716667

Contact Person safetydatasheets@ardex.co.uk

1.4. Emergency telephone number

+44 (0)870 190 6777 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315;Eye Irrit. 2 - H319;Skin Sens. 1 - H317
Environment	Aquatic Chronic 2 - H411

Classification (1999/45/EEC) Xi;R36/38. R43. N;R51/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains
epoxy resin
Epoxy resin (average molecular weight <700)
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS
Phenol, methylstyrentated

Label In Accordance With (EC) No. 1272/2008

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.

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local regulations.
	Dispose of contents/container in accordance with regional regulations.
	Dispose of contents/container in accordance with national regulations.
	Dispose of contents/container in accordance with international regulations.

Supplementary Precautionary Statements

P261	Avoid breathing vapour/spray.
P501	Dispose of contents/container to …

Supplemental label information

EUH205	Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

epoxy resin — 10 - 15 %

CAS-No.: 55492-52-9 EC No.: 611-275-7

Classification (EC 1272/2008)	Classification (67/548/EEC)
Skin Irrit. 2 - H315	Xi;R36/38.
Eye Irrit. 2 - H319	N;R51/53.
Skin Sens. 1 - H317	R43.
Aquatic Chronic 2 - H411	

Epoxy resin (average molecular weight <700) — 15-30%

CAS-No.: 25068-38-6 EC No.: 500-033-5 Registration Number: 01-2119456619-26-xxxx

Classification (EC 1272/2008)	Classification (67/548/EEC)
Skin Irrit. 2 - H315	R43
Eye Irrit. 2 - H319	Xi;R36/38
Skin Sens. 1 - H317	N;R51/53
Aquatic Chronic 2 - H411	

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS — 10 - 15 %

CAS-No.: 68609-97-2 EC No.: Registration Number: 01-2119485289-22-xxxx

Classification (EC 1272/2008)	Classification (67/548/EEC)
Skin Irrit. 2 - H315	R43
Skin Sens. 1 - H317	Xi;R38

Phenol, methylstyrentated — 1 - 5 %

CAS-No.: 68512-30-1 EC No.: 270-966-8

Classification (EC 1272/2008)	Classification (67/548/EEC)
Eye Irrit. 2 - H319	Xi;R36.
Skin Sens. 1 - H317	R43,R52/53.
Aquatic Chronic 3 - H412	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

No recommendation given.

Inhalation

Fresh air.

Ingestion

Get medical attention.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact

Rinse with water. Contact physician if discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Fire causes formation of toxic gases.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Use supplied air respirator if product is involved in a fire.

Protective equipment for fire-fighters

Use air-supplied respirator during fire fighting. Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses. Do not allow ANY environmental contamination.

6.3. Methods and material for containment and cleaning up

Collect spillage with granulates, sawdust, rags or other absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Do not let washing down water contaminate ponds or waterways. Large quantities should not be discharged into the drain but removed with absorbing material.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container.

Storage Class

Unspecified storage.

7.3. Specific end use (s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

DNEL				
Consumer	Dermal	Short Term	Systemic Effects	8, 3 mg/kg/day
Consumer	Inhalation.	Short Term	Systemic Effects	12, 3 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	8, 3 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	12, 3 mg/m3
PNEC				
Freshwater	0, 003	mg/l		
Marinewater	0, 0003	mg/l		
Sediment (Freshwater)	0, 1	mg/kg		
Sediment (Marinewater)	0, 05	mg/kg		
Soil	0, 15	mg/kg		

Phenol, methylstyrentated (CAS: 68512-30-1)

DNEL			
Oral	Long Term	4	mg/kg/day
Dermal	Long Term	8	mg/kg/day
PNEC			
STP	2.4	mg/kg	
Sediment	52.9	mg/kg	

8.2. Exposure controls

Protective equipment

Engineering measures

Well-ventilated area.

Respiratory equipment

At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. It is recommended to use respiratory equipment with combination filter, type A2/P2.

Hand protection

Use suitable protective gloves if risk of skin contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye protection

Goggles/face shield are recommended.

Other Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellowish
Odour	Characteristic.
Solubility	Not soluble in water.
Initial boiling point and boiling range (°C)	> 200° C
Melting point (°C)	
Not determined.	
Relative density	1, 1 - 1, 3 g/cm³ 20°C
Vapour density (air=1)	
Not determined.	
Vapour pressure	
Not determined.	
pH-Value, Conc. Solution	
Not known.	

Viscosity	Not determined. 700 mPas 25

Solubility Value (G/100G H2O@20°C)

Not determined.

Decomposition temperature (°C)

Not determined.

Flash point (°C)	> 100° C
Auto Ignition Temperature (°C)	> 450° C

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Not relevant

10.4. Conditions to avoid

Will react violently with: Amines, Alcohols.

10.5. Incompatible materials

Materials To Avoid

No incompatible groups noted.

10.6. Hazardous decomposition products

There are no anticipated hazardous decomposition products associated with this material.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

No information available.

Inhalation

Not relevant at normal room temperatures. When heated, harmful vapours may be formed.

Upper respiratory irritation.

Ingestion

May cause nausea, headache, dizziness and intoxication.

Skin contact

Irritating to skin.

May cause sensitisation by skin contact.

Eye contact

Irritating to eyes.

Health Warnings

Irritating to skin. Irritating to eyes. Gas or vapour may irritate respiratory system.

Route of entry

Inhalation.

Skin and/or eye contact.

Toxicological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

Toxic Dose 1 - LD 50

20000 mg/kg (oral-mouse)

Toxic Dose 2 - LD 50

19800 mg/kg (oral-rbt)

Acute toxicity:

Acute Toxicity (Oral LD50)

11400 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

Skin Corrosion/Irritation:

Moderately Irritating.

Slightly irritating.

Respiratory or skin sensitisation:

Epidemiological studies have shown evidence of skin sensitisation.

Aspiration hazard:

Ingestion.

Skin and/or eye contact.

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

epoxy resin (CAS: 55492-52-9)

Phenol, methylstyrentated (CAS: 68512-30-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

< 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment if discharged into watercourses. Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Acute Fish Toxicity

Very toxic to aquatic organisms.

Ecological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

LC 50, 96 Hrs, Fish mg/l

1, 3

Acute Toxicity - Fish

LC50 96 hours 3, 6 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 96 hours 2, 8 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours 11 mg/l Selenastrum capricornutum

EC50 96 hours 220 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 96 hours 3, 6 mg/l

EC50 18 h: > 42, 6 mg/l Activated sludge

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days 0, 3 mg/l Daphnia magna

12.2. Persistence and degradability

Degradability

The product is expected to be slowly biodegradable.

Ecological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

Degradability

The product is not readily biodegradable. The product is slowly degradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Ecological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

Bioaccumulation factor

BCF 100 - 3000

Partition coefficient

log Pow 3, 6

12.4. Mobility in soil

Mobility:

The product is non-volatile.

Ecological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

Adsorption/Desorption Coefficient

Soil Koc 1800 - 4400

Henry's Law Constant

4, 93E-05 Pa m3/mol 25° C

12.5. Results of PBT and vPvB assessment

This product contains substances classified as PBT.

Ecological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not available.

Ecological information on ingredients.

Epoxy resin (average molecular weight < 700) (CAS: 25068-38-6)

Not relevant

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.
The packaging must be empty (drop-free, when inverted). The packaging should be collected for reuse.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Waste Class

08 04 10: adhesive and sealant waste with exception of 08 04 09

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

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

14.2. UN proper shipping name

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin (average molecular weight <700), epoxy resin)

14.3. Transport hazard class (es)

ADR/RID/ADN Class	9
ADR/RID/ADN Class	Class 9: Miscellaneous dangerous substances and articles.
ADR Label No.	9
IMDG Class	9
ICAO Class/Division	9

Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG 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
Emergency Action Code	•3Z
Hazard No. (ADR)	90
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations /legislation specific for the substance or mixture

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Water hazard classification

WGK 1

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Issued By	Research and Development Manager
Revision Date	26/04/2017
Revision	6
Supersedes date	20/04/2016
Risk Phrases In Full	
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
H412	Harmful to aquatic life with long lasting effects.