



## SAFETY DATA SHEET ARDEX R 5 E PART A

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                    ARDEX R 5 E PART A  
 PRODUCT NO.                    IR5E06  
 SUPPLIER                        Ardex UK Limited  
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### 2 HAZARDS IDENTIFICATION

May cause sensitisation by skin contact. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
epoxy resin		55492-52-9	10-30%	Xi;R36/38. N;R51/53. R43.
EPOXY RESIN (Number average MW <= 700 )	500-033-5	25068-38-6	60-100%	R43 Xi;R36/38 N;R51/53
OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS		68609-97-2	10-30%	R43 Xi;R38

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

#### INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

#### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

#### EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

#### ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

**ARDEX R 5 E PART A****SPILL CLEAN UP METHODS**

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Chemical storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

**HAND PROTECTION**

Use protective gloves made of: Nitrile. Viton rubber (fluor rubber). Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

**EYE PROTECTION**

Wear tight-fitting goggles or face shield.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENE MEASURES**

**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. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid
COLOUR	Colourless to pale yellow
ODOUR	Characteristic
SOLUBILITY	Immiscible with water

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid excessive heat for prolonged periods of time.

**HAZARDOUS POLYMERISATION**

Will not polymerise.

**MATERIALS TO AVOID**

Strong oxidising substances.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## ARDEX R 5 E PART A

### 11 TOXICOLOGICAL INFORMATION

**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.

### 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

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

### 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

### 14 TRANSPORT INFORMATION



UK ROAD CLASS	9		
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), epoxy resin)		
UN NO. ROAD	3082	UK ROAD PACK GR.	III
ADR CLASS NO.	9	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.
ADR PACK GROUP	III	HAZARD No. (ADR)	90
ADR LABEL NO.	9	HAZCHEM CODE	3Z
CEFIC TEC(R) NO.	90GM6-III	RID CLASS NO.	9
RID PACK GROUP	III	UN NO. SEA	3082
IMDG CLASS	9	IMDG PACK GR.	III
EMS	F-A, S-F	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	3082
AIR CLASS	9	AIR PACK GR.	III

### 15 REGULATORY INFORMATION

**LABELLING**



Irritant



Dangerous for the environment

**CONTAINS**

epoxy resin  
 EPOXY RESIN (Number average MW <= 700 )  
 OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

**RISK PHRASES**

R43                      May cause sensitisation by skin contact.  
 R36/38                Irritating to eyes and skin.

### ARDEX R 5 E PART A

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### SAFETY PHRASES

- S37 Wear suitable gloves.
- S24/25 Avoid contact with skin and eyes.
- S60 This material and its container must be disposed of as hazardous waste.
- S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- P5 Contains epoxy constituents. See information supplied by the manufacturer.

#### STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

### 16 OTHER INFORMATION

REVISION DATE 15/11/2010

REV. NO./REPL. SDS GENERATED 2

#### RISK PHRASES IN FULL

- R36/38 Irritating to eyes and skin.
- 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.

#### DISCLAIMER

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.



## SAFETY DATA SHEET ARDEX R 5 E PART B

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME ARDEX R 5 E PART B

SUPPLIER Ardex UK Limited  
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EMERGENCY TELEPHONE +44 (0) 870 190 6777 (24 hours)

### 2 HAZARDS IDENTIFICATION

Causes burns. Irritating to respiratory system. May cause sensitisation by skin contact. Harmful by inhalation and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) Xn;R20/22. C;R34. Xi;R37. R43. N;R51/53.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	202-013-9	90-72-2	1-3 %	Xn;R22 Xi;R36/38
3-AMINOPROPYLDIMETHYLAMINE	203-680-9	109-55-7	< 1%	R10 C;R34 Xn;R22 R43
4-TERT-BUTYLPHENOL	202-679-0	98-54-4	> 3 %	Xi;R36/37/38. N;R51/53.
BENZYL ALCOHOL	202-859-9	100-51-6	1-3 %	Xn;R20/22
m-PHENYLENEBIS(METHYLAMINE)	216-032-5	1477-55-0	> 3 %	Xn;R20/22. C;R34. R43,R52/53.
TRIMETHYLHEXAN-1,6-DIAMIN	247-134-8	25620-58-0	> 3 %	Xn;R22. C;R34. R43,R52/53.

The Full Text for all R-Phrases is Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Keep the affected person warm and at rest. Get prompt medical attention.

#### INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention immediately!

#### SKIN CONTACT

Remove affected person from source of contamination. Rinse the skin immediately with lots of water. Get medical attention promptly if symptoms occur after washing.

#### EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

#### SPECIFIC HAZARDS

In case of fire, toxic gases may be formed (COx, NOx).

**ARDEX R 5 E PART B****PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses.

**SPILL CLEAN UP METHODS**

Wear necessary protective equipment. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Do not let washing down water contaminate ponds or waterways.

**7 HANDLING AND STORAGE****STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Chemical storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

If ventilation is insufficient, suitable respiratory protection must be provided. Use chemical cartridge protection with appropriate cartridge.

**HAND PROTECTION**

Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

**EYE PROTECTION**

Wear tight-fitting goggles or face shield.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENE MEASURES**

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid
COLOUR	Yellowish
ODOUR	Amine.
SOLUBILITY	Immiscible with water

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Reacts violently with strong oxidising substances.

**HAZARDOUS POLYMERISATION**

Will not polymerise.

**MATERIALS TO AVOID**

Strong oxidising substances. Strong acids.

**ARDEX R 5 E PART B**

## HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

**11 TOXICOLOGICAL INFORMATION**

## INHALATION

Harmful by inhalation. May cause sensitisation by inhalation. May cause respiratory allergy.

## INGESTION

Harmful if swallowed. May cause chemical burns in mouth and throat.

## SKIN CONTACT

Causes burns. May cause allergic contact eczema. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May cause sensitisation by skin contact.

## EYE CONTACT

Causes burns. Extreme irritation of eyes and mucous membranes, including burning and tearing.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

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

## WATER HAZARD CLASSIFICATION

WGK 2

**13 DISPOSAL CONSIDERATIONS**

## DISPOSAL METHODS

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

**14 TRANSPORT INFORMATION**

PROPER SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (m-PHENYLENEBIS(METHYLAMINE), 4-TERT-BUTYLPHENOL)
UN NO. ROAD	1760
ADR CLASS NO.	8
ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(E)
HAZARD No. (ADR)	80
ADR LABEL NO.	8
HAZCHEM CODE	2X
UN NO. SEA	1760
IMDG CLASS	8
IMDG PACK GR.	III
EMS	F-A, S-B
UN NO. AIR	1760
AIR CLASS	8
AIR PACK GR.	III

**15 REGULATORY INFORMATION**

## LABELLING



Corrosive



Dangerous for the environment

**ARDEX R 5 E PART B**

CONTAINS 4-TERT-BUTYLPHENOL  
m-PHENYLENEBIS(METHYLAMINE)  
TRIMETHYLHEXAN-1,6-DIAMIN

## RISK PHRASES

R34	Causes burns.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R20/22	Harmful by inhalation and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SAFETY PHRASES

S13	Keep away from food, drink and animal feeding stuffs.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.

## EU DIRECTIVES

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

## APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

Workplace Exposure Limits EH40.

## 16 OTHER INFORMATION

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## RISK PHRASES IN FULL

R34	Causes burns.
R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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