



SAFETY DATA SHEET ARDEX R 3 E Part B

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

1.1. Product identifier

Product name ARDEX R 3 E Part B

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

Identified uses Primer.

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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361f

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.

Precautionary statements

P260 Do not breathe vapour/ spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

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Contains	2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, 3-AMINOPROPYLDIMETHYLAMINE, ISOPHORONEDIAMINE, 4,4'-ISOPROPYLIDENEDIPHENOL, M-PHENYLENEBIS(METHYLAMINE)
Supplementary precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BENZYL ALCOHOL	25-50%
CAS number: 100-51-6	EC number: 202-859-9
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Eye Irrit. 2 - H319	
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	2.5-10%
CAS number: 90-72-2	EC number: 202-013-9
Classification	
Skin Corr. 1B - H314	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
ISOPHORONEDIAMINE	2.5-10%
CAS number: 2855-13-2	EC number: 220-666-8
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	

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4,4'-ISOPROPYLIDENEDIPHENOL	2.5-10%
CAS number: 80-05-7	EC number: 201-245-8
Classification	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Repr. 2 - H361f	
STOT SE 3 - H335	
3-AMINOPROPYLDIMETHYLAMINE	2.5-10%
CAS number: 109-55-7	EC number: 203-680-9
Classification	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
M-PHENYLENEBIS(METHYLAMINE)	2.5-10%
CAS number: 1477-55-0	EC number: 216-032-5
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Corr. 1B - H314	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	

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	Remove affected person from source of contamination. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Continue to rinse for at least 15 minutes. Get medical attention. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
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 Get medical attention promptly if symptoms occur after washing.

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 Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, toxic and corrosive gases may be formed. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

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 Avoid or minimise the creation of any environmental contamination.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

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 Corrosive 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

BENZYL ALCOHOL (CAS: 100-51-6)

DNEL

Workers - Dermal; Long term : 9.5 mg/kg/day
Workers - Inhalation; Long term : 90 mg/m³

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PNEC Fresh water; 1 mg/l
Marine water; 0.1 mg/l

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

DNEL Workers - Inhalation; Short term : 0.31 mg/m³

PNEC Fresh water; 0.84 mg/l
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3-AMINOPROPYLDIMETHYLAMINE (CAS: 109-55-7)

DNEL Workers - Inhalation; Short term : 9.8 mg/m³

PNEC Fresh water; 0.0535 mg/l
Marine water; 0.00535 mg/l

4,4'-ISOPROPYLIDENEDIPHENOL (CAS: 80-05-7)

DNEL Workers - Dermal; Short term : 1.4 mg/kg/day
Workers - Inhalation; Short term : 10 mg/m³

PNEC Fresh water; 0.018 mg/l
Marine water; 0.016 mg/l

ISOPHORONEDIAMINE (CAS: 2855-13-2)

DNEL Workers - Inhalation; Short term : 20.1 mg/m³

PNEC Fresh water; 0.06 mg/l
Marine water; 0.006 mg/l

M-PHENYLENEBIS(METHYLAMINE) (CAS: 1477-55-0)

PNEC Fresh water; 0.94 mg/l
Marine water; 0.0094 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

The following protection should be worn: Chemical splash goggles.

Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Viton rubber (fluoro rubber). Nitrile rubber. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

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Hygiene measures	Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Combination filter, type A2/P2.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellowish.
Odour	Amine.
Melting point	Not determined.
Initial boiling point and range	ca. 135°C
Flash point	ca. 86°C
Vapour pressure	0.3 hPa @ °C
Solubility(ies)	Not miscible or difficult to mix
Auto-ignition temperature	380°C
Viscosity	600 mPa s @ 20°C
Explosive properties	Not considered to be explosive.

9.2. Other information

Other information	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	No decomposition if used according to specifications.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	No further relevant information available.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Poisonous gases/vapours Corrosive gases/vapours
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

ARDEX R 3 E Part B**Acute toxicity - dermal**

ATE dermal (mg/kg) 11,621.05

Inhalation Vapour may irritate respiratory system/lungs.**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.**Skin contact** May cause skin irritation/eczema.**Eye contact** Causes burns.**Toxicological information on ingredients.****BENZYL ALCOHOL****Acute toxicity - oral**Acute toxicity oral (LD₅₀ mg/kg) 1,040.0

Species Mouse

ATE oral (mg/kg) 1,040.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**Acute toxicity - oral**Acute toxicity oral (LD₅₀ mg/kg) 2,169.0

Species Rat

ATE oral (mg/kg) 2,169.0

ISOPHORONEDIAMINE**Acute toxicity - oral**Acute toxicity oral (LD₅₀ mg/kg) 1,030.0

Species Rat

ATE oral (mg/kg) 1,030.0

Acute toxicity - dermalAcute toxicity dermal (LD₅₀ mg/kg) 1,840.0

Species Rabbit

ATE dermal (mg/kg) 1,840.0

4,4'-ISOPROPYLIDENEDIPHENOL

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Acute toxicity oral (LD₅₀
mg/kg) 3,250.0

Species Rat

ATE oral (mg/kg) 3,250.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 3,000.0

Species Rat

ATE dermal (mg/kg) 3,000.0

Acute toxicity - inhalation

Acute toxicity inhalation
(LC₅₀ vapours mg/l) 5.0

Species Rat

3-AMINOPROPYLDIMETHYLAMINE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀
mg/kg) 410.0

Species Rat

ATE oral (mg/kg) 410.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 1,200.0

Species Rat

ATE dermal (mg/kg) 1,200.0

Acute toxicity - inhalation

Acute toxicity inhalation
(LC₅₀ vapours mg/l) 24.8

Species Rat

ATE inhalation (vapours
mg/l) 24.8

M-PHENYLENEBIS(METHYLAMINE)**Acute toxicity - oral**

Acute toxicity oral (LD₅₀
mg/kg) 930.0

Species Rat

ATE oral (mg/kg) 930.0

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 3,100.0 mg/kg)

Species Rabbit

Notes (dermal LD₅₀)

ATE dermal (mg/kg) 3,100.0

SECTION 12: Ecological Information

Ecotoxicity No data on possible environmental effects have been found.

12.1. Toxicity

Ecological information on ingredients.

BENZYL ALCOHOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 10 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 400 mg/l, Daphnia magna

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 24 hours: 222 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic plants LC₅₀, 72 hours: 84 mg/l, Scenedesmus subspicatus

ISOPHORONEDIAMINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 110 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 23 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: >50 mg/l, Scenedesmus subspicatus

4,4'-ISOPROPYLIDENEDIPHENOL

Acute aquatic toxicity

Acute toxicity - fish EC₅₀, 96 hours: 42 mg/l, Fish

3-AMINOPROPYLDIMETHYLAMINE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 122 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 59.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants LC₅₀, 72 hours: 53.5 mg/l, Scenedesmus subspicatus

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M-PHENYLENEBIS(METHYLAMINE)

Acute aquatic toxicity

Acute toxicity - fish	LC50, 96 hours: 87.6 mg/l, <i>Oryzias latipes</i> (Red killifish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 15.2 mg/l, <i>Daphnia magna</i>
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 20.3 mg/l, <i>Selenastrum capricornutum</i>

12.2. Persistence and degradability

Persistence and degradability No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential No further relevant information available.

12.4. Mobility in soil

Mobility No further relevant information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No information available.

12.6. Other adverse effects

Other adverse effects Not determined.

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)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735
UN No. (ADN)	2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (User to define)
Proper shipping name (IMDG)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (User to define)
Proper shipping name (ICAO)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (User to define)
Proper shipping name (ADN)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (User to define)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C7

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ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

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

No.

14.6. Special precautions for user

IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
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 information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Revision comments	1
Issued by	Research and Development Manager
Revision date	24/04/2018
SDS number	20366
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H412 Harmful to aquatic life with long lasting effects.