



SAFETY DATA SHEET
ARDEX R5E Part A

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name ARDEX R5E Part A
Product No. 18445
Internal Id .

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
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 (average molecular weight <700)
OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

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

P273 Avoid release to the environment.

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P280	Wear protective gloves. Wear eye protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
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	
P302+352	IF ON SKIN: Wash with plenty of soap and water.
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 (average molecular weight <700)	50-70%	
CAS-No.: 25068-38-6	EC No.: 500-033-5	Registration Number: 01-2119456619-26-xxxx
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC) R43 Xi;R36/38 N;R51/53	
OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS	<15 %	
CAS-No.: 68609-97-2	EC No.:	Registration Number: 01-2119485289-22-xxxx
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Skin Sens. 1 - H317	Classification (67/548/EEC) R43 Xi;R38	

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

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5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Extinguish with foam, carbon dioxide, dry powder or water fog.

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

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

Ingredient Comments

WEL = Workplace Exposure Limits

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		

8.2. Exposure controls

Protective equipment



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 suitable protective gloves if risk of skin contact.

Eye protection

If risk of splashing, wear safety 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 hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. 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	Immiscible with water
Initial boiling point and boiling range (°C)	> 200°C
Relative density	1.12 at 23°C
pH-Value, Conc. Solution	
Not applicable.	
Viscosity	700 mPas at 25°C
Flash point (°C)	> 100°C
	Product ist not selfigniting.
Explosive properties	
Not applicable.	

9.2. Other information**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion

May cause discomfort if swallowed.

Skin contact

May cause sensitisation by skin contact.

Eye contact

Irritating to eyes.

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)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment.

12.1. Toxicity

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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

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

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

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

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

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

Road Transport Notes	Not Classified
Rail Transport Notes	Not classified.
Sea Transport Notes	Not classified.
Air Transport Notes	Not classified.

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)
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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

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Tunnel Restriction Code (E)

14.7. 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

Statutory Instruments

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

Approved Code Of Practice

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

Guidance Notes

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

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Issued By Research and Development Manager

Revision Date 26/04/2017

Revision 3

Supersedes date 23/04/2015

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.

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.