SAFETY DATA SHEET
ARDEX R3E Part A

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

1.1. Product identifier

Product name	ARDEX R3E Part A
Product No.	18443, 18444

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-alkyloxy)methyl]derivates

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		
	P261	Avoid breathing vapours.
	P280	Wear protective gloves.

	P280	Wear eye protection.
		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.
Supplemental label information		
	EUH205	Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Epoxy resin (average molecular weight <700) — 50 - 100 %

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]derivates — 10 - 25 %

CAS-No.: 68609-97-2 | EC No.: 271-846-8 | Registration Number: 01-2119485289-22-xxxx

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

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

Remove affected person from source of contamination.

Inhalation

Get medical attention if any discomfort continues. Remove victim immediately from source of exposure. Move the exposed person to fresh air at once.

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

General information

Not known.

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

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)

No information available.

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		

Oxirane, mono[(C12-14-alkyloxy)methyl]derivates (CAS: 68609-97-2)

DNEL				
Industry	Dermal	Short Term	Systemic Effects	17 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	29 mg/m3
Industry	Dermal	Short Term	Local Effects	68 mg/cm²
Industry	Inhalation.	Short Term	Local Effects	9, 8 mg/m3
Industry	Dermal	Long Term	Systemic Effects	3, 9 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	13, 8 mg/m3
Industry	Dermal	Long Term	Local Effects	1, 7 mg/cm²
Industry	Inhalation.	Long Term	Local Effects	0, 98 mg/m3
Consumer	Dermal	Short Term	Systemic Effects	10 mg/kg/day
Inhalation.	Short Term	Systemic Effects	7, 6	mg/m3
Consumer	Oral	Short Term	Systemic Effects	1219 mg/kg/day
Consumer	Dermal	Short Term	Local Effects	40 mg/cm²
Consumer	Inhalation.	Short Term	Local Effects	2, 9 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	2, 35 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	4, 1 mg/m3
Consumer	Oral	Long Term	Systemic Effects	1 mg/kg/day

8.2. Exposure controls

Protective equipment

Engineering measures

Well-ventilated area.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. It is recommended to use respiratory equipment with combination filter, type A2/P2.

Hand protection

Nitrile gloves are recommended. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands after handling. 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 g/cm³ 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 available.

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO2). None under normal conditions.

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

Irritation of eyes and mucous membranes.

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]derivates (CAS: 68609-97-2)

Acute toxicity:
Acute Toxicity (Oral LD50)
> 50000 mg/kg Rat

Acute Toxicity (Dermal LD50)
> 4500 mg/kg Rabbit
Acute Toxicity (Inhalation LC50)
> 0.15 mg/l (vapours) Rat

Skin Corrosion/Irritation:
Slightly irritating.

Respiratory or skin sensitisation:
Epidemiological studies have shown evidence of skin sensitisation.

Aspiration hazard:
Inhalation
Not relevant at normal room temperatures. When heated, harmful vapours may be formed.
Ingestion
Harmful if swallowed.
Skin contact
May cause sensitisation by skin contact.
Irritating to eyes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity

Acute Fish Toxicity
Giftig für Fische

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

Oxirane, mono[(C12-14-alkyloxy)methyl]derivates (CAS: 68609-97-2)

Acute Toxicity - Fish

LC50 96 hours 1800 mg/l Onchorhynchus mykiss (Rainbow trout)

96 hours 1.800 mg/l Lepomis macrochirus (Bluegill)

EC 50, 48 Hrs, Daphnia, mg/l

1 - 10 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 72 hours 844 mg/l

IC 50, 72 Hrs, Algae, mg/l

843.75 mg/l

Acute Toxicity - Aquatic Plants

EC50 72 hours 843 mg/l Selenastrum capricornutum

NOEC 72 hours 500 mg/l Selenastrum capricornutum

Acute Toxicity - Microorganisms

EC50 > 100 mg/l Activated sludge

12.2. Persistence and degradability

No further relevant information available.

Degradability

The product is not readily 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.

Oxirane, mono[(C12-14-alkyloxy)methyl]derivates (CAS: 68609-97-2)

OECD 301 F Ready Biodegradability / 28 days: 87 %

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

Oxirane, mono[(C12-14-alkyloxy)methyl]derivates (CAS: 68609-97-2)

moderate

Partition coefficient

log Pow 3 - 5

OECD 107: 3.77

12.4. Mobility in soil

Mobility:

Not considered mobile.

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

Oxirane, mono[(C12-14-alkyloxy)methyl]derivates (CAS: 68609-97-2)

Mobility:

Not considered mobile.

Adsorption/Desorption Coefficient

Soil Koc > 5000

Henry's Law Constant

1.12 E-02 atm m3/mol

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.

Oxirane, mono[(C12-14-alkyloxy)methyl]derivates (CAS: 68609-97-2)

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)

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

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

No chemical safety assessment has been carried out.

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	5
Supersedes date	22/04/2015
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.