



SAFETY DATA SHEET
ARDEX R6E Part A

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

1.1. Product identifier

Product name ARDEX R6E Part A
Product No. 18448, 18449

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. |

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| | |
|--------------------------------|--|
| P280 | Wear eye protection. |
| P305+351+338 | Wear protective gloves/protective clothing/eye protection/face protection. 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) 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-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) Skin Irrit. 2 - H315 Skin Sens. 1 - H317 | Classification (67/548/EEC) Xi;R38. 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

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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)

No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

WEL = Workplace Exposure Limits

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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/m ³ |
| Consumer | Dermal | Long Term | Systemic Effects | 8, 3 mg/kg/day |
| Consumer | Inhalation. | Long Term | Systemic Effects | 12, 3 mg/m ³ |
| 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/m ³ |
| Industry | Dermal | Short Term | Local Effects | 68 mg/cm ² |
| Industry | Inhalation. | Short Term | Local Effects | 9, 8 mg/m ³ |
| Industry | Dermal | Long Term | Systemic Effects | 3, 9 mg/kg/day |
| Industry | Inhalation. | Long Term | Systemic Effects | 13, 8 mg/m ³ |
| Industry | Dermal | Long Term | Local Effects | 1, 7 mg/cm ² |
| Industry | Inhalation. | Long Term | Local Effects | 0, 98 mg/m ³ |
| Consumer | Dermal | Short Term | Systemic Effects | 10 mg/kg/day |
| Inhalation. | Short Term | Systemic Effects | 7, 6 | mg/m ³ |
| Consumer | Oral | Short Term | Systemic Effects | 1219 mg/kg/day |
| Consumer | Dermal | Short Term | Local Effects | 40 mg/cm ² |
| Consumer | Inhalation. | Short Term | Local Effects | 2, 9 mg/m ³ |
| Consumer | Dermal | Long Term | Systemic Effects | 2, 35 mg/kg/day |
| Consumer | Inhalation. | Long Term | Systemic Effects | 4, 1 mg/m ³ |
| 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/cm ³ at 23°C |
| pH-Value, Conc. Solution | Not applicable. |
| Viscosity | 700 mPas at 25°C |

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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.

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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

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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

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

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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

This is first issue.

Issued By

Research and Development Manager

ARDEX R6E Part A

| | |
|---------------------------|---|
| 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. |

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.