



**SAFETY DATA SHEET
ARDEX PSRS Part A**

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

1.1. Product identifier

Product name ARDEX PSRS Part A
Product No. 18456

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

Identified uses Consolidation Resin

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)

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

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.

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P501	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	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
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

1,6-HEXANEDIOLDIGLYCIDYLETHER	30 %
CAS-No.: 16096-31-4	EC No.: 240-260-4
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xi;R36/38. R43,R52/53.
Epoxy resin (average molecular weight <700)	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

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

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

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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/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		

1,6-HEXANEDIOLDIGLYCIDYLETHER (CAS: 16096-31-4)

DNEL				
Professional	Dermal	2.8	mg/kg/day	
Professional	Inhalation.	2.9	mg/m3	

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.

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

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
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

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.

1,6-HEXANEDIOLDIGLYCIDYLETHER (CAS: 16096-31-4)

Toxic Dose 1 - LD 50

2900 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Oral LD50)

1400 mg/kg Mouse

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Acute Toxicity (Inhalation LC50)

> 100 mg/l (vapours) Mouse

SECTION 12: ECOLOGICAL INFORMATION

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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

1,6-HEXANEDIOLDIGLYCIDYLETHER (CAS: 16096-31-4)

Acute Toxicity - Fish

96 hours 1.10 mg/l Leuciscus idus (Golden orfe)

LC50 72 hours 30 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

48 hours 1.10 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 48 hours 23, 1 mg/l

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.

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

12.4. Mobility in soil

Mobility:

Not considered mobile.

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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

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))
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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

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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

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	4
Supersedes date	26/08/2015

Risk Phrases In Full

R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes 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.

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.
H412	Harmful 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.