



**SAFETY DATA SHEET
ARDEX PSRS Part B**

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

1.1. Product identifier

Product name ARDEX PSRS Part B
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 Acute Tox. 4 - H302; Acute Tox. 4 - H332; Skin Corr. 1A - H314; Skin Sens. 1 - H317; Repr. 2 - H361f
Environment Aquatic Chronic 1 - H410

Classification (1999/45/EEC)

Xn; R20/22. Repr. Cat. 3; R62. C; R35. R43. N; R51/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains 4-tert-Butylphenol
m-phenylenebis(methylamine)
Phenol, styrenated
trimethylhexane-1,6-diamine

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.

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Precautionary Statements	<p>H361f Suspected of damaging fertility. H410 Very toxic to aquatic life with long lasting effects.</p> <p>P305+351+338 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 or doctor/physician. P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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.</p>
Supplementary Precautionary Statements	<p>P260 Do not breathe vapour/spray. P405 Store locked up.</p>

2.3. Other hazards

This product does not contain any PBT or vPvB substances. Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

4-tert-Butylphenol	25-50%
CAS-No.: 98-54-4	EC No.: 202-679-0
Registration Number: 01-2119489419-21-xxxx	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Repr. 2 - H361f Aquatic Chronic 1 - H410	Classification (67/548/EEC) Repr. Cat. 3;R62. Xi;R41,R38. N;R51/53.
m-phenylenebis(methylamine)	25 - 50 %
CAS-No.: 1477-55-0	EC No.: 216-032-5
Registration Number: 01-2119480150-50-xxxx	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xn;R20/22. C;R34. R43,R52/53.
Phenol, styrenated	2.5-10%
CAS-No.: 61788-44-1	EC No.: 262-975-0
Registration Number: 01-2119980970-27-xxxx	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xi;R38. N;R51/53. R43.
trimethylhexane-1,6-diamine	10 - 25%
CAS-No.: 25513-64-8	EC No.: 247-063-2
Registration Number: 01-2119560598-25-xxxx	

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Classification (EC 1272/2008)

Acute Tox. 4 - H302

Skin Corr. 1B - H314

Skin Sens. 1 - H317

Aquatic Chronic 3 - H412

Classification (67/548/EEC)

Xn;R22.

C;R34.

R43,R52/53.

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

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use (s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<u>4-tert-Butylphenol (CAS: 98-54-4)</u>				
DNEL				
Professional	Dermal	Long Term	0.071	mg/kg/day
Professional	Inhalation.	Long Term	0.5	mg/m3
PNEC				
Freshwater	0.01	mg/l		
Marinewater	0.001	mg/l		
<u>m-phenylenebis(methylamine) (CAS: 1477-55-0)</u>				
PNEC				
Freshwater	0.094	mg/l		
Marinewater	0.0094	mg/l		
<u>trimethylhexane-1,6-diamine (CAS: 25513-64-8)</u>				
PNEC				
Freshwater	0.0295	mg/l		
Marinewater	0.00295	mg/l		

8.2. Exposure controls

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Fluid.
Colour	Yellowish
Odour	Amine.
Solubility	Immiscible with water
Initial boiling point and boiling range (°C)	> 200°C
Bulk Density	1 g/cm ³ (ISO 2811-2)
Viscosity	150 mPas
Flash point (°C)	> 100°C
Auto Ignition Temperature (°C)	365°C
	Product ist not selfigniting.

Explosive under influence of flame.

Not considered to be explosive.

9.2. Other information**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity****10.2. Chemical stability****10.3. Possibility of hazardous reactions****10.4. Conditions to avoid****10.5. Incompatible materials****10.6. Hazardous decomposition products****SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxicological information on ingredients.

4-tert-Butylphenol (CAS: 98-54-4)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 5.6 mg/l (vapours) Rat 4 hours

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m-phenylenebis(methylamine) (CAS: 1477-55-0)

Toxic Conc. - LC 50
1, 42 mg/l/4h (inh-rat)

Acute toxicity:

Acute Toxicity (Oral LD50)
930 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 3100 mg/kg Rabbit

Skin Corrosion/Irritation:

Corrosive to skin.

Respiratory or skin sensitisation:

Skin sensitisation

Local Lymph Node Assay (LLNA) Mouse

Sensitising. OECD 429 Skin Sensitization: Local Lymph / Node Assay : skin - guinea pig / mouse - sensitization

Germ cell mutagenicity:

OECD 473 In vitro Mammalian Chromosomal Aberration Test: negativ OECD 476 In vitro Mammalian Cell Gene Mutation Test: negativ

This substance has no evidence of mutagenic properties.

OECD 471 Bacterial Reverse Mutation Test: negativ OECD 474 Mammalian Erythrocyte Micronucleus Test: negativ

Does not contain any substances known to be mutagenic.

Carcinogenicity:

No evidence of carcinogenicity in animal studies

Reproductive Toxicity:

Reproductive Toxicity - Fertility

NOAEL 150 mg/kg Oral Rat

OECD 421 Reproduction / Development Toxicity Screening Test: Rat - Oral 150 mg/kg NOEL

Aspiration hazard:

Health Warnings

OECD 407 Repeated Dose 28-day Oral Toxicity Study in Rodents - NOEL - 150 mg/Kg

trimethylhexane-1,6-diamine (CAS: 25513-64-8)

Toxic Dose 1 - LD 50

910 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)

1280 mg/kg Rabbit

Phenol, styrenated (CAS: 61788-44-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 20000 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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Ecological information on ingredients.

4-tert-Butylphenol (CAS: 98-54-4)

LC 50, 96 Hrs, Fish mg/l

1-10

Acute Toxicity - Fish

LC50 96 hours > 5.1 Pimephales promelas (Fat-head Minnow)

LC50 96 hours > 1 mg/l Onchorhynchus mykiss (Rainbow trout)

EC 50, 48 Hrs, Daphnia, mg/l

10-100

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 4.8 mg/l Daphnia magna

72 hours > 100 mg/l Selenastrum capricornutum

EC50 3 hours 10 mg/l Activated sludge

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days 0.73 mg/l Daphnia magna

m-phenylenebis(methylamine) (CAS: 1477-55-0)

LC 50, 96 Hrs, Fish mg/l

87, 6 mg/l

Acute Toxicity - Fish

LC50 96 hours > 100 mg/l Onchorhynchus mykiss (Rainbow trout)

LC50 96 hours 75 mg/l Leuciscus idus (Golden orfe)

EC 50, 48 Hrs, Daphnia, mg/l

15, 2 mg/l

Acute Toxicity - Aquatic Plants

EC50 72 hours 20, 3 mg/l Selenastrum capricornutum

EC50 72 hours 12 mg/l Scenedesmus subspicatus

Acute Toxicity - Microorganisms

EC50 30 min > 1000 mg/l Activated sludge

trimethylhexane-1,6-diamine (CAS: 25513-64-8)

Acute Toxicity - Fish

LC50 48 hours 174 mg/l Leuciscus idus (Golden orfe)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 31.5 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours 29.5 mg/l Scenedesmus subspicatus

12.2. Persistence and degradability

Ecological information on ingredients.

4-tert-Butylphenol (CAS: 98-54-4)

OECD 301 F Ready Biodegradability / 28 days : 60 %

m-phenylenebis(methylamine) (CAS: 1477-55-0)

OECD 301B Ready Biodegradability - CO2 Evolution Test / 28 days: 49 %

Degradability

The product is not readily biodegradable.

12.3. Bioaccumulative potential

Ecological information on ingredients.

4-tert-Butylphenol (CAS: 98-54-4)

Bioaccumulation factor

BCF 48 - 88 Cyprinus carpio (Common carp)

Partition coefficient

log Pow 3.29 OECD Test 107

m-phenylenebis(methylamine) (CAS: 1477-55-0)

Bioaccumulation factor

BCF < 3 Cyprinus carpio (Common carp)

Partition coefficient

log Pow 0.18 OECD Test 107

12.4. Mobility in soil

Ecological information on ingredients.

4-tert-Butylphenol (CAS: 98-54-4)

Henry's Law Constant
1.19 E -06 atm m3/mol 25°C

m-phenylenebis(methylamine) (CAS: 1477-55-0)

Mobility:
The product is non-volatile.
Henry's Law Constant
6.94 E-11 atm m3/mol 25°C

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

4-tert-Butylphenol (CAS: 98-54-4)

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735

14.2. UN proper shipping name

Proper Shipping Name AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylendiamine, 4-tert-Butylphenol)

14.3. Transport hazard class (es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

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Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	80
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

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	24/08/2015

Risk Phrases In Full

R34	Causes burns.
R35	Causes severe burns.
R20/22	Harmful by inhalation and if swallowed.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.