



**SAFETY DATA SHEET**  
**ARDEX AF 2525 Part B**

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

**1.1. Product identifier**

Product name ARDEX AF 2525 Part B  
Product No. 25018

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

Identified uses Two component polyurethane adhesive

**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  
e-mail: [safetydatasheets@ardex.co.uk](mailto:safetydatasheets@ardex.co.uk)  
Contact Person Mr. Ian Smith, Laboratory Manager

**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 - H332; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Resp. Sens. 1 - H334; Skin Sens. 1 - H317; Carc. 2 - H351; STOT SE 3 - H335; STOT RE 2 - H373
Environment	Not classified.

Classification (1999/45/EEC)

Xn; R20-40-R48/20. Carc. Cat. 3; R40. R42/43. Xi; R36/37/38.

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

**2.2. Label elements**

Contains Diphenylmethandiisocyanate, isomers and homologues

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



Signal Word

Danger

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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	H335	May cause respiratory irritation.
	H351	Suspected of causing cancer.
	H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements		
	P281	Use personal protective equipment as required.
	P260	Do not breathe vapours.
	P285	In case of inadequate ventilation wear respiratory protection.
	P280	Wear protective gloves. Wear eye 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.
	P308+313	IF exposed or concerned: Get medical advice/attention.
	P314	Get medical advice/attention if you feel unwell.
	P501a	Dispose of contents / container in accordance with local / regional / national / international regulations

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Description: Adhesive

Dangerous Components:

CAS: 9016-87-9      *diphenylmethanediisocyanate, isomers and homologues*      50-100%  
EC number: 618-498-9      ❌ Xn R20-40-48/20; ❌ Xn R42/43; ❌ Xi R36/37/38  
Carc. Cat. 3  
⚠️ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠️ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

Additional Information:

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

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Consult a physician for specific advice.

Skin contact

Rinse with water. Contact physician if discomfort continues. Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if irritation persists. Do not rub eye.

### 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

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

Unusual Fire & Explosion Hazards

N/A.

Specific hazards

N/A.

**5.3. Advice for firefighters**

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8. Avoid contact with eyes. Wear protective gloves and, in case of splashes, goggles/face shield too. In case of spills, beware of slippery floors and surfaces.

**6.2. Environmental precautions**

Collect and dispose of spillage as indicated in section 13. Do not allow to enter drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

Collect spillage with granulates, sawdust, rags or other absorbent. Prevent discharge of larger quantity to drain. Do not let washing down water contaminate ponds or waterways.

**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. Avoid spilling, skin and eye contact. Avoid inhalation of vapours/spray and contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container. Keep upright. Store above freezing. Store in cool, dry conditions. Protect from heat and direct sunlight.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

Components with critical values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

WEL (Great Britain) Short-term value: 0,07 mg/m<sup>3</sup>

Long-term value: 0,02 mg/m<sup>3</sup>

Sen; as -NCO

Additional information: The lists valid during the making were used as basis.

**8.2. Exposure controls**

Protective equipment



Engineering measures

Observe occupational exposure limits and minimize the risk of inhalation of vapours.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapour cartridge.

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Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Nitrile gloves are recommended.

Eye protection

Use safety goggles and face shield in case of splash risk.

Hygiene measures

Use appropriate skin cream to prevent drying of skin.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Brown.
Odour	Unpleasant - Characteristic
Solubility	Immiscible with water
Initial boiling point and boiling range (°C)	> 200
Melting point (°C)	30
Relative density at 20°C	1, 23 g/cm <sup>3</sup>
pH-Value, Conc. Solution	5 - 8.5
Viscosity	90 mPas
Flash point (°C)	> 200

#### 9.2. Other information

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Reaction with: Acids.

#### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

#### 10.3. Possibility of hazardous reactions

Reacts with alcohols, amines, aqueous acids and alkalis.

#### 10.4. Conditions to avoid

Avoid frost. Avoid excessive heat for prolonged periods of time.

#### 10.5. Incompatible materials

No further relevant information

#### 10.6. Hazardous decomposition products

Danger of forming toxic pyrolysis products. Carbon dioxide.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

LD/LC50 values that are relevant for classification:

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >10000 mg/kg (rat) (OECD RL 401)

Dermal LD50 >9400 mg/kg (rabbit) (OECD RL 402)

Inhalative LC50/4h 11 mg/l (rat) (OECD RL 403)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitisation:

Sensitising effect through inhalation is possible by prolonged exposure.

Sensitising effect by skin contact is possible by prolonged exposure.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful  
Irritant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)  
Carc. 2

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Ecological information on ingredients.

**Diphenylmethandiisocyanate, isomers and homologues (CAS: 9016-87-9)**

Acute Toxicity - Fish

LC0 96 hours > 1000 mg/l Brachydanio rerio (Zebra Fish)

LC50 96 hours > 1000 mg/l Brachydanio rerio (Zebra Fish)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 1000 mg/l Daphnia magna

Acute Toxicity - Microorganisms

EC50 3 hours > 100 mg/l Activated sludge

Acute Toxicity - Terrestrial

EC50 24 hours > 100 mg/l Soil Microorganisms

**12.2. Persistence and degradability****12.3. Bioaccumulative potential**

Bioaccumulative potential

The product is not bioaccumulating.

**12.4. Mobility in soil**

Mobility:

Semi-mobile.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects****SECTION 13: DISPOSAL CONSIDERATIONS**

General information

The packaging should be collected for reuse.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Confirm disposal procedures with environmental engineer and local regulations.

Waste Class

08 04 10: adhesive and sealant waste with exception of 08 04 09

**SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)**

Transport Labels

No transport warning sign required.

**14.4. Packing group****14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant No.

**14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

## EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Water hazard classification

WGK 2

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

## Revision Comments

This is the first issue.

Issued By	Mr. Ian Smith, Laboratory Manager (Telephone:01440 714939)
Revision Date	04/08/2016

## Risk Phrases In Full

R20	Harmful by inhalation.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.

## Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

## 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.