



HIGH PERFORMANCE
TILING AND FLOORING PRODUCTS

ARDEX UK Limited

Safety data sheet

Revision dated
JANUARY 2007

CODE W

Product Safety Data Sheet

1. Identification of the preparations and company.

Product details: As part of a 3-part floor coating.

Trade names: ARDEX R 10 P Part B ARDEX R 70 P Part B ARDEX AF 2510 Part B
ARDEX R 8 P Part B ARDEX R 80 P Part B
ARDEX R 15 P Part B ARDEX R 90 P Part B

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2. Composition/information on ingredients.

Name	CAS No.	EINECS Nr.	Classification	Content
DiphenylMethane 4,4'-Di-isocyanate	101-68-8	202-966-0	Xn, Xi, R-20-36/37/38-42/43	20-50%
Diphenylmethane 2,4'-Di-isocyanate	5873-54-1	227-534-9	Xn, Xi R-20-36/37/38-42/43	2.5-10%
Diphenylmethane Diisocyanate - Isomers and homologues	9016-87-9	-	Xn, Xi R-20-36/37/38-42/43	20-50%

Additional information: For the wording of the listed risk phrases refer to section 16.

3. Hazards identification.

Hazard designation: Xn Harmful.

Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 20 Harmful by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.



4. First aid measures.

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact: Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: In case of persistent symptoms consult doctor.

5. Fire-fighting measures.

Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Protective equipment: Put on breathing apparatus.

6. Accidental release measures.

Personal safety precautions: Wear protective clothing.

Measures for environmental protection: Do not allow to enter drainage system, surface or ground water.

Measures for cleaning/collecting: Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

7. Handling and Storage.

Handling

Information for safe handling:

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Information about protection against explosions and fires: No special measures required.

Storage

Requirements to be met by storerooms and containers: Protect from frost.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.



8. Exposure controls and personal protection.

Additional information about design of technical systems: No further data; see item 7.

Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

101-68-8 diphenylmethane-4,4'-di-isocyanate (20-50%)	
WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
9016-87-9 diphenylmethanediisocyanate, isomers and homologues (20-50%)	
WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
5873-54-1 diphenylmethane-2,4'-diisocyanate (2.5-10%)	
WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO

Additional information: Based on references valid at the time of compilation.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

Breathing equipment: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed safety glasses.



9. Physical and chemical properties.

General Information

Form:	Liquid
Colour:	Various colours
Smell:	Characteristic

Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	300°C

Flash point:	Not applicable
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Ignition temperature:	400.0°C
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Self-flammability:	Product is not self-igniting.
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Danger of explosion:	Product is not explosive.
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Critical values for explosion:

Lower:	0.4 Vol%
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Vapour pressure at 20°C:	0.0 hPa
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Density at 20°C:	1.200g/cm ³
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Settled apparent density at 20°C:	1.2kg/m ³
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Solubility in/Miscibility with Water:	Unsoluble
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Solvent content:	
Organic solvents:	0.0

10. Stability and reactivity.

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known.

Dangerous products of composition: No dangerous decomposition products known.

11. Toxicological information.

Acute toxicity:

Primary irritant effect:

on the skin: Irritant for skin and mucous membranes.

on the eye: Irritant effect.

Sensitization:

Sensitization possible by inhalation.

Sensitization possible by skin contact.

Additional toxicological information:

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

12. Ecological information.

Ecotoxicological effects:

Remark: EC 50, 48 hours, Daphnia, >1000mg/litre.

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, lakes and water courses or sewage system.



13. Disposal considerations.

Product:**Recommendation:** D10, R1**Waste disposal key number:** 08 01 11**Uncleaned packagings:****Recommendation:** Wash with suitable cleaner otherwise as above in accordance with local regulations.

14. Transport information.

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**ADR/RID-GGVS/E Class:** -**Maritime transport IMDG/GGVSea:****IMDG/GGVSea Class:** -**Marine pollutant:** No**Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** -

15. Regulatory information.

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives/Ordinance on Hazardous Materials.

Code letter and hazard designation of product: Xn Harmful**Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomers and homologues

diphenylmethane-4,4'-diisocyanate

diphenylmethane-2,4'-diisocyanate

Risk phrases:

- | | |
|-----------------|---|
| 20 | Harmful by inhalation. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| 42/43 | May cause sensitisation by inhalation and skin contact. |

Safety phrases:

- | | |
|-----------|---|
| 9 | Keep container in a well-ventilated place. |
| 22 | Do not breathe dust. |
| 23 | Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). |
| 24 | Avoid contact with skin. |
| 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| 37 | Wear suitable gloves. |
| 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 60 | This material and its container must be disposed of as hazardous waste. |

National regulations:**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**16. Other information.**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

20	Harmful by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitisation by inhalation and skin contact.

* Data compared to the previous version altered.