



## Ardex D2

Ardex (Ardex Australia)

Chemwatch: 4988-16

Version No: 6.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: 01/09/2016

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S: GHS AUS EN

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

#### Product Identifier

|                               |   |
|-------------------------------|---|
| Product name                  | Ardex D2  |
| Synonyms                      | water based, acrylic, mastic, ceramic tile adhesive |
| Other means of identification | Not Available                                       |

#### Relevant identified uses of the substance or mixture and uses advised against

|                          |   |
|--------------------------|---|
| Relevant identified uses | Premixed, water based, acrylic, mastic adhesive for fixing ceramic tiles. |
|--------------------------|---|

#### Details of the supplier of the safety data sheet

|                         |   |  |
|-------------------------|---|--|
| Registered company name | Ardex (Ardex Australia)                       | Ardex (Ardex NZ)                                 |
| Address                 | 20 Powers Road Seven Hills NSW 2147 Australia | 32 Lane Street Woolston Christchurch New Zealand |
| Telephone               | 1800 224 070                                  | +64 3373 6928                                    |
| Fax                     | 1300 780 102                                  | +64 3384 9779                                    |
| Website                 | Not Available                                 | Not Available                                    |
| Email                   | Not Available                                 | Not Available                                    |

#### Emergency telephone number

|                                   |                                 |               |
|-----------------------------------|---------------------------------|---------------|
| Association / Organisation        | Not Available                   | Not Available |
| Emergency telephone numbers       | 1800 224 070 (Mon-Fri, 9am-5pm) | +64 3373 6900 |
| Other emergency telephone numbers | Not Available                   | Not Available |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL, NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### CHEMWATCH HAZARD RATINGS

|              | Min | Max          |
|--------------|-----|--------------|
| Flammability | 0   |              |
| Toxicity     | 0   | 0 - Moderate |
| Body Contact | 1   | 1 - Low      |
| Reactivity   | 1   | 2 - Moderate |
| Chronic      | 0   | 0 - High     |

Poisons Schedule Not Applicable

Classification Not Applicable

#### Label elements

GHS label elements Not Applicable

SIGNAL WORD NOT APPLICABLE

#### Hazard statement(s)

Not Applicable

Continued...

**Precautionary statement(s) Prevention**

Not Applicable

**Precautionary statement(s) Response**

Not Applicable

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

Not Applicable

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**Substances**

See section below for composition of Mixtures

**Mixtures**

| CAS No        | %[weight] | Name                     |
|---------------|-----------|--------------------------|
| Not Available | 30-60     | fillers, unspecified     |
| Not Available | 10-60     | acrylic copolymer latex. |
| Not Available | <10       | additives, unspecified   |
| Not Available | <1        | bactericide              |
| 7732-18-5     | 10-30     | <u>water</u>             |

**SECTION 4 FIRST AID MEASURES**

**Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes.</p> <ul style="list-style-type: none"><li>Wash out immediately with fresh running water.</li><li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li><li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li><li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li></ul> |
| <b>Skin Contact</b> | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"><li>Flush skin and hair with running water (and soap if available).</li><li>Seek medical attention in event of irritation.</li></ul>  |
| <b>Inhalation</b>   | <ul style="list-style-type: none"><li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li><li>Other measures are usually unnecessary.</li></ul>   |
| <b>Ingestion</b>    | <ul style="list-style-type: none"><li>Immediately give a glass of water.</li><li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li></ul>   |

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIREFIGHTING MEASURES**

**Extinguishing media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture**

|                             |  |
|-----------------------------|--|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"><li>Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li></ul> |
|-----------------------------|--|

**Advice for firefighters**

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"><li>Alert Fire Brigade and tell them location and nature of hazard.</li><li>Wear breathing apparatus plus protective gloves in the event of a fire.</li><li>Prevent, by any means available, spillage from entering drains or water courses.</li><li>Use fire fighting procedures suitable for surrounding area.</li></ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"><li>Non combustible.</li><li>Not considered a significant fire risk, however containers may burn.</li></ul> <p>Decomposition may produce toxic fumes of: carbon dioxide (CO<sub>2</sub>) nitrogen oxides (NO<sub>x</sub>) other pyrolysis products typical of burning organic material</p>                                 |
| <b>HAZCHEM</b>               | Not Applicable   |

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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

See section 8

**Environmental precautions**

See section 12

Continued...

## Methods and material for containment and cleaning up

|              |   |
|--------------|---|
| Minor Spills | <ul style="list-style-type: none"> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Wear impervious gloves and safety goggles.</li> <li>Trowel up/scrape up.</li> </ul>   |
| Major Spills | <p>Minor hazard.</p> <ul style="list-style-type: none"> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

|                   |   |
|-------------------|---|
| Safe handling     | <ul style="list-style-type: none"> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling <b>DO NOT</b> eat, drink or smoke.</li> </ul> |
| Other information | <ul style="list-style-type: none"> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>    |

### Conditions for safe storage, including any incompatibilities

|                         |   |
|-------------------------|---|
| Suitable container      | <ul style="list-style-type: none"> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
| Storage incompatibility | <ul style="list-style-type: none"> <li>Avoid reaction with oxidising agents</li> </ul>  |

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1        | TEEL-2        | TEEL-3        |
|------------|---------------|---------------|---------------|---------------|
| Ardex D2   | Not Available | Not Available | Not Available | Not Available |

| Ingredient               | Original IDLH | Revised IDLH  |
|--------------------------|---------------|---------------|
| fillers, unspecified     | Not Available | Not Available |
| acrylic copolymer latex. | Not Available | Not Available |
| additives, unspecified   | Not Available | Not Available |
| bactenacide              | Not Available | Not Available |
| water                    | Not Available | Not Available |

### Exposure controls

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

- Process controls which involve changing the way a job activity or process is done to reduce the risk.
- Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### Personal protection



#### Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

See Hand protection below

#### Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

#### Body protection

See Other protection below

#### Other protection

No special equipment needed when handling small quantities.

**OTHERWISE:**

- Overalls.

Continued...

**Thermal hazards**

- ▶ Barrier cream.
  - ▶ Eyewash unit.
- Not Available

**Recommended material(s)**

**GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:  
Ardex D2

| Material       | CPI |
|----------------|-----|
| BUTYL          | A   |
| NEOPRENE       | A   |
| VITON          | A   |
| NATURAL RUBBER | C   |
| PVA            | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|   |  |  |                |
|---|--|--|----------------|
| <b>Appearance</b>                                       | Stiff white to slightly off white mildly alkaline paste, mixes with water. |  |                |
| <b>Physical state</b>                                   | Non Slump Paste  | <b>Relative density (Water = 1)</b>                | 1.5 approx.    |
| <b>Odour</b>  | Not Available  | <b>Partition coefficient<br/>n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                                  | Not Available  | <b>Auto-ignition temperature<br/>(°C)</b>          | Not Applicable |
| <b>pH (as supplied)</b>                                 | 8-9  | <b>Decomposition<br/>temperature</b>               | Not Available  |
| <b>Melting point / freezing<br/>point (°C)</b>          | Not Available  | <b>Viscosity (cSt)</b>                             | Not Available  |
| <b>Initial boiling point and<br/>boiling range (°C)</b> | Not Available  | <b>Molecular weight (g/mol)</b>                    | Not Applicable |
| <b>Flash point (°C)</b>                                 | Not Applicable   | <b>Taste</b>                                       | Not Available  |
| <b>Evaporation rate</b>                                 | Not Applicable   | <b>Explosive properties</b>                        | Not Available  |
| <b>Flammability</b>                                     | Not Applicable   | <b>Oxidising properties</b>                        | Not Available  |
| <b>Upper Explosive Limit (%)</b>                        | Not Applicable   | <b>Surface Tension (dyn/cm or<br/>mN/m)</b>        | Not Available  |
| <b>Lower Explosive Limit (%)</b>                        | Not Applicable   | <b>Volatile Component (%vol)</b>                   | Not Available  |
| <b>Vapour pressure (kPa)</b>                            | Not Available  | <b>Gas group</b>                                   | Not Available  |
| <b>Solubility in water (g/L)</b>                        | Miscible   | <b>pH as a solution (1%)</b>                       | Not Applicable |
| <b>Vapour density (Air = 1)</b>                         | Not Available  | <b>VOC g/L</b>                                     | Not Available  |

**SECTION 10 STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Reactivity</b>                             | See section 7   |
| <b>Chemical stability</b>                     | Product is considered stable and hazardous polymerisation will not occur. |
| <b>Possibility of hazardous<br/>reactions</b> | See section 7   |
| <b>Conditions to avoid</b>                    | See section 7   |
| <b>Incompatible materials</b>                 | See section 7   |
| <b>Hazardous decomposition<br/>products</b>   | See section 5   |

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Inhaled**

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Continued...

## Ardex D2

## Ingestion

The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

## Skin Contact

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

## Eye

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

## Chronic

Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

## Ardex D2

## TOXICITY

Not Available

## IRRITATION

Not Available

## water

## TOXICITY

Oral (rat) LD50: >90000 mg/kg<sup>[2]</sup>

## IRRITATION

Not Available

## Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2 \* Value obtained from manufacturer's SDS Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances.

## WATER

No significant acute toxicological data identified in literature search.

## Acute Toxicity



## Skin Irritation/Corrosion



## Serious Eye



## Damage/Irritation



## Respiratory or Skin



## sensitisation



## Mutagenicity



## Carcinogenicity



## Reproductive



## STOT - Single Exposure



## STOT - Repeated Exposure



## Aspiration Hazard



Legend: X - Data available but does not fill the criteria for classification

✓ - Data required to make classification available

○ - Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

| Ingredient | Endpoint | Test Duration (hr) | Species                       | Value        | Source |
|------------|----------|--------------------|-------------------------------|--------------|--------|
| water      | LC50     | 96                 | Fish                          | 897.520mg/L  | 3      |
| water      | EC50     | 96                 | Algae or other aquatic plants | 8768.874mg/L | 3      |
| water      | EC50     | 384                | Crustacea                     | 199.179mg/L  | 3      |

## Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EFWIN Suite V3.12 Aquatic Toxicity Data (Estimated) 4. US EPA Ecotox database - Aquatic Toxicity Data 5. EGETOG Aquatic Hazard Assessment Data 6. NITE (Japan) Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

## Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|------------------|
| water      | LOW                     | LOW              |

## Bioaccumulative potential

| Ingredient | Bioaccumulation      |
|------------|----------------------|
| water      | LOW (LogKOW = -1.38) |

## Mobility in soil

| Ingredient | Mobility         |
|------------|------------------|
| water      | LOW (KOC = 14.3) |

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

## Product / Packaging disposal

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

Continued...

Ardex D2

|                  |                |
|------------------|----------------|
| Marine Pollutant | NO             |
| HAZCHEM          | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

| National Inventory            | Status    |
|-------------------------------|-----------|
| Australia - AICS              | Y         |
| Canada - DSL                  | Y         |
| Canada - NDSL                 | N (water) |
| China - IECSC                 | Y         |
| Europe - EINEC / ELINCS / NLP | Y         |
| Japan - ENCS                  | N (water) |
| Korea - KECI                  | Y         |
| New Zealand - NZIoC           | Y         |
| Philippines - PICCS           | Y         |
| USA - TSCA                    | Y         |

Legend:

Y = All ingredients are on the inventory

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

## SECTION 16 OTHER INFORMATION

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net](http://www.chemwatch.net)

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average  
PC – STEL: Permissible Concentration-Short Term Exposure Limit  
IARC: International Agency for Research on Cancer  
ACGIH: American Conference of Governmental Industrial Hygienists  
STEL: Short Term Exposure Limit  
TEEL: Temporary Emergency Exposure Limit  
IDLH: Immediately Dangerous to Life or Health Concentrations  
OSF: Odour Safety Factor  
NOAEL: No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

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