

# Ardex WPM 501 - Part B

Ardex (Ardex Australia)

Chemwatch: 4560-92

Version No: 5.1.1.1

Material Safety Data Sheet according to NOHSC and ADG requirements

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## SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier	
<b>Product name:</b>	Ardex WPM 501 - Part B
<b>Chemical Name:</b>	Not Applicable
<b>Synonyms:</b>	Shelter HydrEpoxy 501 Adhesive - Part B
<b>Proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains bisphenol A/ epichlorohydrin resin, liquid)
<b>Chemical formula:</b>	Not Applicable
<b>Other means of identification:</b>	Not Available
<b>CAS number:</b>	Not Applicable

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

<b>Relevant identified uses:</b>	Requires that the two parts be mixed by hand or mixer before use, in accordance with manufacturers directions. Mix only as much as is required. <b>Do not</b> return the mixed material to the original containers , Part B of a two component water-based epoxy adhesive.
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### Details of the supplier of the safety data sheet

<b>Registered company name:</b>	Ardex (Ardex Australia)	Ardex (Ardex NZ)
<b>Address:</b>	20 Powers Road Seven Hills 2147 NSW Australia	32 Lane Street Woolston Christchurch New Zealand
<b>Telephone:</b>	1800 224 070	+64 3384 3029
<b>Fax:</b>	+61 2 9838 7817	+64 3384 9779
<b>Website:</b>	Not Available	Not Available
<b>Email:</b>	Not Available	Not Available

### Emergency telephone number

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

## SECTION 2 Hazards identification

### Classification of the substance or mixture

**HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.**

#### ChemWatch Hazard Ratings

	1	2	3	4
Flammability	1	2	3	4
Toxicity	0	1	2	3
Body Contact	2	3	4	
Reactivity	1	2	3	4
Chronic	2	3	4	

0 = Minimum  
1 = Low  
2 = Moderate  
3 = High  
4 = Extreme

<b>Poisons Schedule:</b>	S5
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#### Risk Phrases <sup>[1]</sup>

<b>R36/38</b>	Irritating to eyes and skin.
<b>R51/53</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>R43</b>	May cause SENSITISATION by skin contact.

*Legend: 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI*

#### Label elements



Relevant risk statements are found in section 2

<b>Indication(s) of danger:</b>	Xi, N
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#### Safety advice:

S23	Do not breathe gas/fumes/vapour/spray.
S24	Avoid contact with skin.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.
S29	Do not empty into drains.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S39	Wear eye/face protection.
S40	To clean the floor and all objects contaminated by this material, use water and detergent.
S46	If swallowed, IMMEDIATELY contact Doctor or Poisons Information Center. (show this container or label).
S56	Dispose of this material and its container at hazardous or special waste collection point.

S57	Use appropriate container to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S64	If swallowed, rinse mouth with water (only if the person is conscious).

#### Other hazards

Possible respiratory sensitizer\*.  
 Limited evidence of a carcinogenic effect\*.

## SECTION 3 Composition / information on ingredients

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
25068-38-6	30-60	<a href="#">BISPHENOL A/ EPICHLOROHYDRIN RESIN, LIQUID</a>
	40-70	ingredients determined not to be hazardous

## SECTION 4 First aid measures

#### Description of first aid measures

##### Eye Contact:

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- 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.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

##### Skin Contact:

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

##### Inhalation:

- If fumes, aerosols or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

##### Ingestion:

- For advice, contact a Poisons Information Centre or a doctor at once.
- Urgent hospital treatment is likely to be needed.
- **If swallowed do NOT induce vomiting.**
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Transport to hospital or doctor without delay.

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

Treat symptomatically.

## SECTION 5 Firefighting measures

#### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

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

##### Fire Incompatibility:

- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### Advice for firefighters

##### Fire Fighting:

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.

##### Fire/Explosion Hazard:

- Combustible.
- Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).

## SECTION 6 Accidental release measures

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

##### Minor Spills:

Environmental hazard - contain spillage.

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.

##### Major Spills:

Environmental hazard - contain spillage.

Minor hazard.

- Clear area of personnel.

- Alert Fire Brigade and tell them location and nature of hazard.

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

## SECTION 7 Handling and storage

### Precautions for safe handling

#### Safe handling

- DO NOT allow clothing wet with material to stay in contact with skin**
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with moisture.

#### Other information

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area.

### Conditions for safe storage, including any incompatibilities

#### Suitable container:

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

#### Storage incompatibility:

- Avoid reaction with oxidising agents



X: Must not be stored together

0: May be stored together with specific preventions

+: May be stored together

#### Package Material Incompatibilities:

## SECTION 8 Exposure controls / personal protection

### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Not Available

#### Emergency Limits

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
bisphenol A/ epichlorohydrin resin, liquid	50 / 4 / 125(ppm)	150 / 12.5 / 350(ppm)	500 / 100(ppm)	500(ppm)

Ingredient	Original IDLH	Revised IDLH
Ardex WPM 501 - Part B	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 lens or restrictions on use, should be created for each workplace or task.

#### Skin protection:

See Hand protection below

#### Hand protection:

- When handling liquid-grade epoxy resins wear chemically protective gloves (e.g nitrile or nitrile-butadiene rubber), boots and aprons.
- DO NOT use cotton or leather (which absorb and concentrate the resin), polyvinyl chloride, rubber or polyethylene gloves (which absorb the resin).**
- DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams should be reviewed prior to use.**

#### NOTE:

- The material may produce skin sensitisation in predisposed individuals.

#### Body protection:

See Other protection below

#### Other protection:

- Overalls.
- Barrier cream
- Eyewash unit.

#### Thermal hazards:

#### Recommended material(s):

#### Respiratory protection:

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

White paste with a mild epoxy odour; emulsifies in water.

Physical state	Liquid	Relative density (Water = 1)	1.05-1.09
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	35-40
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Partly Miscible	pH as a solution(1%)	Not Available
Vapour density (Air = 1)	Not Available		

## SECTION 10 Stability and reactivity

#### Reactivity:

See section 7

#### Chemical stability:

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

#### Possibility of hazardous reactions:

See section 7

#### Conditions to avoid:

See section 7

#### Incompatible materials:

See section 7

#### Hazardous decomposition products:

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.

#### 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. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).

#### Skin Contact:

Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

#### Eye:

Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

#### Chronic:

Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment. Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population. Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching.

TOXICITY	IRRITATION
<b>Ardex WPM 501 - Part B</b>	
Not Available	Not Available
<b>bisphenol A/ epichlorohydrin resin, liquid</b>	
Oral (rat) LD50: 11400 mg/kg	Eye (rabbit): 100mg - Mild

Not Available

Not Available

Not available. Refer to individual constituents.

**BISPHENOL A/ EPICHLOROHYDRIN RESIN, LIQUID**

The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

<b>Acute Toxicity:</b>	Not Applicable	<b>Carcinogenicity:</b>	Not Applicable
<b>Skin Irritation/Corrosion:</b>	Skin Corrosion/Irritation Category 2	<b>Reproductivity:</b>	Not Applicable
<b>Serious Eye Damage/Irritation:</b>	Eye Irrit. 2	<b>STOT - Single Exposure:</b>	Not Applicable
<b>Respiratory or Skin sensitisation:</b>	Skin Sensitizer Category 1	<b>STOT - Repeated Exposure:</b>	Not Applicable
<b>Mutagenicity:</b>	Not Applicable	<b>Aspiration Hazard:</b>	Not Applicable

**CMR STATUS**

**SECTION 12 Ecological information**

**Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**DO NOT discharge into sewer or waterways.**

**Persistence and degradability**

<b>Ingredient</b>	<b>Persistence: Water/Soil</b>	<b>Persistence: Air</b>
Not Available	Not Available	Not Available

**Bioaccumulative potential**

<b>Ingredient</b>	<b>Bioaccumulation</b>
Not Available	Not Available

**Mobility in soil**

<b>Ingredient</b>	<b>Mobility</b>
Not Available	Not Available

**SECTION 13 Disposal considerations**

**Waste treatment methods**

**Product / Packaging disposal:**

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

**SECTION 14 Transport information**

**Labels Required:**



**Marine Pollutant**



HAZCHEM: 3Z

**Land transport (ADG)**



<b>UN number</b>	3082	<b>Packing group</b>	III
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains bisphenol A/ epichlorohydrin resin, liquid)	<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	Class: 9 Subrisk:	<b>Special precautions for user</b>	Special provisions 179 274 331 335 AU01 limited quantity 5 L

**Air transport (ICAO-IATA / DGR)**



<b>UN number</b>	3082	<b>Packing group</b>	III
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. * (contains bisphenol A/ epichlorohydrin resin, liquid)	<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	ICAO/IATA Class: 9 ICAO / IATA Subrisk: ERG Code: 9L	<b>Special precautions for user</b>	Special provisions: A97 A158 Cargo Only Packing Instructions: 964 Cargo Only Maximum Qty / Pack: 450 L Passenger and Cargo Packing Instructions: 964 Passenger and Cargo Maximum Qty / Pack: 450 L Passenger and Cargo Limited Quantity Packing Instructions: Y964 Passenger and Cargo Maximum Qty / Pack: 30 kg G

#### Sea transport (IMDG-Code / GGVSee)



<b>UN number</b>	3082	<b>Packing group</b>	III
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains bisphenol A/ epichlorohydrin resin, liquid)	<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	IMDG Class: 9 IMDG Subrisk:	<b>Special precautions for user</b>	EMS Number: F-A,S-F Special provisions: 274 335 Limited Quantities: 5 L

## SECTION 15 Regulatory information

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

#### bisphenol A/ epichlorohydrin resin, liquid(25068-38-6) is found on the following regulatory lists

"Australia Inventory of Chemical Substances (AICS)", "Sigma-AldrichTransport Information", "OECD List of High Production Volume (HPV) Chemicals", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Hazardous Substances", "International Maritime Dangerous Goods Requirements (IMDG Code) - Substance Index", "Regulations concerning the International Carriage of Dangerous Goods by Rail - Table A: Dangerous Goods List - RID 2013 (English)", "International Air Transport Association (IATA) Dangerous Goods Regulations", "Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes", "Australia - New South Wales Protection of the Environment Operations (Waste) Regulation 2005 - Characteristics of trackable wastes", "International Maritime Dangerous Goods Requirements (IMDG Code)", "Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List", "OSPAR National List of Candidates for Substitution – United Kingdom"

## 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/references](http://www.chemwatch.net/references)

The (M)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.

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