

Ardex WPM 300 - Part A

Ardex (Ardex Australia)

Chemwatch: 6530-08 Version No: 4.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code; 2

Issue Date 24/12/2015 Print Date 15/02/2016 Initial Date Not Available S.GHS AUS EN

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

Product Identifier

Product name

Ardex WPM 300 - Part A

Synonyms

Shelter HydrEpoxy 300 - Part A

Other means of

Identification

Not Available

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

Relevant identified uses

Part A of a two component water-based epoxy waterproofing coaling.

Details of the supplier of the safety data sheet

Registered company name

Ardex (Ardex Australia)

Ardex (Ardex NZ)

Address

20 Powers Road Seven Hills 2147 NSW Australia

32 Lane Street Woolston Christchurch New Zealand

Telephone

Website

1800 224 070

Not Available

+64 3373 6928

Fax 1300 780 102

+64 3384 9779 Not Available

Email Not Available

Not Available

Emergency telephone number

Association / Organisation

Not Available

Not Available

Emergency telephone numbers

1800 224 070 (Mon-Fn, 9am-5pm)

+64 3373 6900

Other emergency telephone

numbers

Not Available

Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

Flammability (
Toxicity (
Body Conlact ;

Reactivity

Chronic

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(Average)
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1 / Securit
1 / mich

Polsons Schedule

Not Applicable

Classification [1]

Skin Sensitizer Category 1

Legend:

1 Classified by Chernwatch, 2. Classification drawn from HSIS , 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Label elements

GHS label elements



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SIGNAL WORD WARNING

Hazard statement(s)

H317 May cause an allergic skin reaction

Precautionary statement(s) Prevention

P280 Wear protective gloves/protective dollning/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P363 Wash contaminated clothing before reuse.
P302+P352 IF ON SKIN Wash with plenty of soap and water.

P333+P313 If skin imitation or rash occurs. Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
Not Available	10-30	polyamide resin.
112-24-3	1-2	triethylenetetramine
Not Available	>60	ingredients determined not to be hazardous

SECTION 4 FIRST AID MEASURES

Description of first aid measures

If this product comes in contact with the eyes

- Wash out immediately with fresh running water.

 Eye Contact
 Ensure complete imagation of the eye by keeping
 - Ensure complete imgation 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.

If skin contact occurs:

- Skin Contact 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.
 - If furnes, aerosols or combustion products are inhaled remove from contaminated area.
 - Other measures are usually unnecessary.
 - Ingestion Immediately give a glass of water.
 - First aid is not generally required, if in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Fire Fighting

Inhalation

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

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

Advice for firefighters

- 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.
- ➤ The material is not readily combustible under normal conditions.
- Fire/Explosion Hazard

 However, it will break down under fire conditions and the organic component may burn.

 Not considered to be a significant fire risk.
 - Heat may cause expansion or decomposition with violent rupture of containers.

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Other decomposition products include, carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic materialMay emit poisonous furnes. May emit corrosive furnes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Clean up all spills immediately.
- Minor Spills Avoid breathing vapours and contact with skin and eyes.
 - Control personal contact with the substance, by using protective equipment.
 - · Contain and absorb spill with sand, earth, inert material or vermiculite.

Moderate hazard.

Major Spills

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- · Wear breathing apparatus plus protective gloves.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Safe handling . Use in a well-ventilated area.
 - Avoid contact with moisture.
 - . DO NOT allow clothing wet with material to stay in contact with skin
 - Store in original containers.
- Other information
- Keep containers securely sealed.
- · Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

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

Storage incompatibility

Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Material name

Control parameters

- OCCUPATIONAL EXPOSURE LIMITS (OEL)
- INGREDIENT DATA

Not Available

Ingredient

EMERGENCY LIMITS

triethylenetetramine	Triethylenetetramine	3 ppm	
Ingredient	Original IDLH		Revised IDLH
polyamide resin.	Not Available		Not Available
tnelhyleneletramine	Not Available		Not Available
ingredients determined not to be hazardous	Not Available		Not Available

Exposure 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.

TEEL-1

TEEL-2

5.7 ppm

TEEL-3

83 ppm

Appropriate engineering controls

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









Safety glasses with side shields

Eye and face protection

Chemical goggles.

 Contact lenses may pose a special hazard; soft contact tenses may absorb and concentrate irritants. A written policy document, describing the wearing of tenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

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NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- > Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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.

Hands/feet protection

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage.

- > When handling liquid-grade epoxy resins wear chemically protective gloves (e.g nitrile or nitrile-butatoluene rubber), boots and aprons.
- DO NOT use colton of feather (which absorb and concentrate the resin), polyvinyl chloride, nuiber 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

Body protection

See Other protection below

- Overalls.
- Other protection
- P.V.C. apron.
- Barrier cream.

Thermal hazards

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;

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Material	CPI
BUTYL	Α
NEOPRENE	Α
NITRILE	Α
PE/EVAL/PE	Α
VITON	Α

^{*} CPI - Chemwatch Performance Index

A: Best Selection

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

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter, the nature of protection varies with Type of filter,

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	•
un to 100 x ES	_	AK-2 P2	AK-PAPR-2 P2 ^

^{^ -} Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Grey or coloured paste with a fillio affiline boods, fillixes with water.			
Physical state	Liquid	Relative density (Water = 1)	1.38	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C) Not App		
pH (as supplied)	9.5-10.5	Decomposition Not Availe temperature		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt) Not Ava		
initial boiling point and boiling range (°C)	100 approx.	Molecular welght (g/mol)	Not Applicable	
Flash point (°C)	Not Applicable	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Applicable	Oxidising properties	Nol Available	
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	45-50	
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	VOC g/L	Not Available	

Grey or coloured paste with a mild amine odour, mixes with water

B: Satisfactory, may degrade after 4 hours continuous immersion

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

^{*} 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.

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Reactivity See section 7 Unstable in the presence of incompatible materials. Chemical stability Product is considered stable. Hazardous polymerisation will not occur. Possibility of hazardous See section 7 reactions Conditions to avoid See section 7 Incompatible materials See section 7 Hazardous decomposition See section 5 products

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 "hamful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or imitated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
Ardex WPM 300 - Part A	TOXICITY	RRITATION	
AIGEX WEM 300 - FEIL A	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50; 805 mg/kgE ^[2]	Eye (rabbit) 20 mg/24 h - moderate	
trielhylenetetramine	Oral (rat) LD50 2500 mg/kgE ^[2]	Eye (rabbit); 49 mg - SEVERE	
		Skin (rabbit). 490 mg open SEVERE	
		Skin (rabbit): 5 mg/24 SEVERE	
Legend:	1 Value obtained from Europa ECHA Registered Sub- extracted firm RTFCS - Register of Toxic Effect of thi	stances - Acute terretty 2 * Value obtained from manufacturur's SDS - Unioss otherwise specified data omical Substances	

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 unicaria 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.

Ethylenoamines are very reactive and can cause chemical burns, skin rashes and asthma-like symptoms. It is readify absorbed through the skin and may cause eye blindness and irreparable damage. As such, they require careful handling. In general, the low-molecular weight polyamines have been positive in the Ames assay (for genetic damage); however, this is probably due to their ability to chelate copper.

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to imitants may produce conjunctivitis.

The material may cause severe skin imitation after profonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

For alkyl polyamines.

TRIETHYLENETETRAMINE

The alkyl polyamines cluster consists of two terminal primary and at least one secondary amine groups and are derivatives of tow molecular weight ethylenediamine, propylenediamine or hexanediamine. Toxicity depends on route of exposure. Cluster members have been shown to cause skin irritation or sensitisation, eye irritation and genetic defects, but have not been shown to cause cancer.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

Triethylenetetramine is a severe imitant to skin and eyes and may induce skin sensitisation. Acute exposure to saturated vapour via inhalation was tolerated without impairment but exposure to aerosol may lead to reversible imitations of the mucous membranes in the airways. Studies done on experimental animals showed that it does not cause cancer or foetal developmental defects.

Exposure to the material for prolonged penods may cause physical defects in the developing embryo (teratogenesis).

Acute Toxicity	Carcinogenicity 🔾
Skin Irritation/Corrosion	Reproductivity 🕒
Serious Eye Damage/Irritation	STOT - Single Exposure
Respiratory or Skin sensitisation	STOT - Repeated Exposure
MutagenIcity 🔆	Aspiration Hazard

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- " Data required to make classification available
- S Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
triethylenetetramine	EC50	48	Crustacea	31.tmg/L	1
triethylenetetramine	EC10	72	Algae or other aquatic plants	0.67mg/L	1
triethylenetetramine	EC50	72	Algae or other aquatic plants	2.5mg/L	1
triethylenetetramine	NOEC	72	Algae or other aquatic plants	<2.5mg/L	1
triethylenetetramine	LC50	96	Fish	180mg/L	1

Leaend:

Extracted from 1_HJCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3_EPIMIN Sude v3_12 Aquatic Toxicity Data (Estimated) 4_US EPA_Ecotox database - Aquatic Toxicity Data 5_ECETOC Aquatic Hazard Assessment Data 6_NITE (Japan) Bioconcentration Data 7, METI (Japan) - Bioconcontration Data 8_Vendor Data

DO NOT discharge into sewer or waterways

Persistence and degradability

 Ingredient
 Persistence: Water/Soil
 Persistence: Air triethylenetetramine

 LOW
 LOW

Bioaccumulative potential

Ingredient Bioaccumulation
triethylenetetramine LOW (LogKOW = -2.6464)

Mobility in soil

Ingredient Mobility

triethylenetetramine LOW (KOC = 309.9)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- DO NOT allow wash water from cleaning or process equipment to enter drains
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first,
- Where in doubt contact the responsible authority.

Product / Packaging disposal

- Recycle wherever possible.
 Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers.

SECTION 14 TRANSPORT INFORMATION

Labels Required

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

Source	Ingredient	*	Pollution Category
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	triethylenetetramine		 Υ

SECTION 15 REGULATORY INFORMATION

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

TRIETHYLENETETRAMINE(112-24-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

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National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (trielhylenetetramine)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory. N = Net determined or one air more ingredients are our on the inventory and are our exercipt 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 Chernwatch Classification committee using available literature references.

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

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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TEL (+61 3) 9572 4700