

Ardex (Ardex Australia)

Chemwatch: 8044-25

Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements

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

Product Identifier

Product name	Ardex WPM 185 - Green
Synonyms	Bitumen based polyethylene membrane, Shelterbit Mineral Membrane - Green
Other means of identification	Not Available

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

Relevant identified uses Used as a waterproofing membrane.

Details of the supplier of the safety data sheet

Ardex (Ardex Australia)	Ardex (Ardex NZ)
20 Powers Road Seven Hills NSW 2147 Australia	32 Lane Street Woolston Christchurch New Zealand
1800 224 070	+64 3373 6928
1300 780 102	+64 3384 9779
Not Available	Not Available
Not Available	Not Available
	20 Powers Road Seven Hills NSW 2147 Australia 1800 224 070 1300 780 102 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	1		
Toxicity	0		0 = Minimum
Body Contact	1	1	1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	0	i.	4 = Extreme

Poisons Schedule	Not Applicable
Classification	Not Applicable
Label elements	
GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

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S.GHS.AUS.EN

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
8052-42-4	<60	bitumen (petroleum)
9002-88-4	<10	polyethylene
		No other ingredients disclosed by Manufacturer.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 For molten materials: 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	For molten materials: If skin or hair contact occurs: If skin or hair and hair with running water (and scap if available). > Seek medical attention in event of initiation. For thermal burns: > Decontaininate area around burn. > Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin) > Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. > Use compresses if running water is not available. > Cover with sterile non-adhesive bandage or clean cloth. > Do NOT apply butter or ointments; this may cause infection. > Give over-the counter pain increases or swelling, redness, fever occur. For second-degree burns (affecting top tay or 10-15 minutes. > Use compresses if running water is not available. > Do NOT apply butter or ointments; this may cause infection. > Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) > Cool the burn by immerse in cold running water for 10-15 minutes. > Use compresses if running water is not available. > Do NOT apply lote as this may lower body temperature and cause further damage. > Do NOT papk is eas this may lower body temperature and cause further damage. > Do NOT papk jouens that shere is not available. > Do NOT spek biters or ointhemst; this may cause intection. > Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (Inless the person has a head, neck, or leg injury, or it would cause discomfort): + Lay the person flat. > Elevate feet abourd 12 inches. > Elevate burn area above heart level; if possible. • Cover the person with coat or blanket. > Seek medical assistance. For this dragere burns Seek immedicate medical or emergency assistance. In the mean time: • Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in w
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Generally not applicable.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with strong oxidising agents 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. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. Slight hazard when exposed to heat, flame and oxidisers. 			
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

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Wear physical protective gloves e.g. Leather.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.
litions for safe storag	e, including any incompatibilities

Suitable container	Material is supplied in a roll form.	
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. Avoid reaction with oxidising agents [Oils, solvents and bitumen products.	

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes	
Australia Exposure Standards	bitumen (petroleum)	Bitumen fumes	5 mg/m3	Not Available	Not Available	Not Available	
EMERGENCY LIMITS							
Ingredient	Material name	TEEL	1	TEEL-2	1	TEEL-3	
bitumen (petroleum)	Asphalt; (Bitumen)		0.5 mg/m3 5 mg/m3		3	30 mg/m3	
bitumen (petroleum)	Petroleum asphalt		′m3	5 mg/m3		30 mg/m3	
polyethylene	Polyethylene		m3	110 mg/m3		1000 mg/m3	

Ingredient	Original IDLH	Revised IDLH
bitumen (petroleum)	Not Available	Not Available
polyethylene	Not Available	Not Available

Exposure controls

Appropriate engineering controls	General exhaust is adequate under normal operating conditions. If inhalation risk of overexposure exists, wear SAA approved organic-vapour respirator. Correct respirator fit is essential to obtain adequate protection.
Personal protection	
Eye and face protection	 Safety glasses. 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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.
Skin protection	See Hand protection below
Hands/feet protection	► Safety footwear Wear impervious gloves.
Body protection	See Other protection below
Other protection	 ▶ Overalls. ▶ Eyewash unit.
Thermal hazards	Not Available

Respiratory protection

Type A-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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-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)

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Black membrane sheet with a bitumen base. Insoluble in water	r.	
Physical state	Manufactured	Relative density (Water = 1)	1-1.5
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not available.
pH (as supplied)	Not Applicable	Decomposition temperature	Not available.
Melting point / freezing point (°C)	>100	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	470 (bitumen)	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	230 (bitumen)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not available.
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

Reactivity	See section 7
Chemical stability	Unstable in the 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	Not normally a hazard due to physical form of product. The vapour is discomforting to the upper respiratory tract and lungs Inhalation of vapour is more likely at higher than normal temperatures	
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environ	ments
Skin Contact	Not normally a hazard due to physical form of product. The material may cause skin irritation after prolonged or repeated exp scaling and thickening of the skin.	posure and may produce on contact skin redness, swelling, the production of vesicles,
Eye	Not normally a hazard due to physical form of product. The vapour from heated material is The vapour/liquid is to the eyes	
Chronic	The principal routes of exposure are by skin contact with the material and inhalation of fumes from the heated material	
	ΤΟΧΙΟΙΤΥ	IRRITATION
Ardex WPM 185 - Green	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
bitumen (petroleum)	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available
	Oral (rat) LD50: >5000 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Not Available
polyethylene	Inhalation (mouse) LC50: 12 mg/L/30m ^[2]	
	Inhalation (rat) LC50: 75.5 mg/L/30M ^[2]	
	Oral (rat) LD50: >3000 mg/kg ^[2]	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute extracted from RTECS - Register of Toxic Effect of chemical Substar	e toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data nces
	v	

BITUMEN (PETROLEUM)	Asthma-like symptoms may continue for months or even years reactive airways dysfunction syndrome (RADS) which can oc of RADS include the absence of preceding respiratory diseases to hours of a documented exposure to the irritant. A reversible on methacholine challenge testing and the lack of minimal lym of RADS. RADS (or asthma) following an irritating inhalation i irritating substance. Industrial bronchitis, on the other hand, is (often particulate in nature) and is completely reversible after No significant acute toxicological data identified in literature s	cur following exposure to high levels e, in a non-atopic individual, with abr a airflow pattern, on spirometry, with the phocytic inflammation, without eosir is an infrequent disorder with rates r is a disorder that occurs as result of exposure ceases. The disorder is ch	s of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes he presence of moderate to severe bronchial hyperreactivity nophilia, have also been included in the criteria for diagnosis elated to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance
POLYETHYLENE	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in a polyethylene pyrolyzate	nimal testing.	
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	\otimes	STOT - Single Exposure	\otimes
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	\odot

седени:

Data available but does not nill the criteria for classification
 Data required to make classification available

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
polyethylene	EC50	384	Crustacea	3.834mg/L	3
polyethylene	EC50	96	Algae or other aquatic plants	61.666mg/L	3
polyethylene	LC50	96	Fish	16.252mg/L	3
Legend:	Aquatic Toxicity Data (Es	, , ,	stered Substances - Ecotoxicological Information e - Aquatic Toxicity Data 5. ECETOC Aquatic H ta 8. Vender Data	, ,	

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
polyethylene	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
polyethylene	LOW (LogKOW = 1.2658)

Mobility in soil

Ingredient	Mobility
polyethylene	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. Consult State Land Waste Management Authority for disposal.

SECTION 14 TRANSPORT INFORMATION

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

BITUMEN (PETROLEUM)(8052-42-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

 Australia Exposure Standards
 Australia

 Australia Hazardous Substances Information System - Consolidated Lists
 Interr

Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

POLYETHYLENE(9002-88-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (polyethylene; bitumen (petroleum))
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (polyethylene)

Japan - ENCS	N (bitumen (petroleum))
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
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 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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