

Ardex WPM1000 Undertile Butynol

Ardex (Ardex Australia)

Chemwatch: 42-9444 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert (

Issue Date: **18/01/2017** Print Date: **20/01/2017** S.GHS.AUS.EN

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

Product Identifier

| Product name | Ardex WPM1000 Undertile Butynol |
|-------------------------------|---------------------------------|
| Synonyms | WPM 1000RI, undertile butynol |
| Other means of identification | Not Available |

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

Relevant identified uses Undertile waterproofing membrane.

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 | 1 | | |
| Toxicity | 0 | | 0 = Minimum |
| Body Contact | 0 | | 1 = Low 2 = Moderate |
| Reactivity | 0 | | 3 = High |
| Chronic | 0 | | 4 = Extreme |

| Poisons Schedule | Not Applicable |
|------------------|----------------|
| Classification | Not Applicable |

Label elements

| GHS label elements | Not Applicable |
|--------------------|----------------|
| SIGNAL WORD | NOT APPLICABLE |

Hazard statement(s)

Not Applicable

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Precautionary statement(s) Prevention

Not Applicable

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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 |
|---------------|-----------|-------------------------|
| 1333-86-4 | 20-45 | carbon black |
| Not Available | 10-30 | polyolefins. |
| Not Available | <5 | stabilisers. |
| 9003-27-4 | NotSpec. | isobutylene homopolymer |
| 9003-31-0 | NotSpec. | isoprene homopolymer |
| Not Available | NotSpec. | rubber accelerators |
| Not Available | NotSpec. | vulcanising agents |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|--|
| Skin Contact | If skin or hair contact occurs: ► 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 | ► Generally not applicable. |

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 | None known. | |
|-------------------------|--|--|
| Advice for firefighters | 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. | |
| Fire/Explosion Hazard | Combustible Decomposes on heating and produces toxic fumes of: , carbon monoxide (CO) , carbon dioxide (CO2) , other pyrolysis products typical of burning organic material. | |
| HAZCHEM | Not Applicable | |

SECTION 6 ACCIDENTAL RELEASE MEASURES

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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. When handling DO NOT eat, drink or smoke. |
|-------------------|--|
| Other information | No special storage precautions required |

Conditions for safe storage, including any incompatibilities

| Suitable container | No restriction on the type of containers. Packing as recommended by manufacturer. Check all material is clearly labelled. |
|-------------------------|---|
| Storage incompatibility | No known incompatibility with normal range of industrial materials |

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 | carbon black | Carbon black | 3 mg/m3 | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | 2 | TEEL-3 |
|-------------------------|-----------------------|---------|---------|---------------|-----------|
| carbon black | Carbon black | 9 mg/m3 | 99 mg/r | m3 | 590 mg/m3 |
| Ingredient | Original IDLH | | | Revised IDLH | |
| carbon black | N.E. mg/m3 / N.E. ppm | | | | |
| polyolefins. | Not Available | | | Not Available | |
| stabilisers. | Not Available | | | Not Available | |
| isobutylene homopolymer | Not Available | | | Not Available | |
| isoprene homopolymer | Not Available | | | Not Available | |
| rubber accelerators | Not Available | | | Not Available | |
| vulcanising agents | Not Available | | | Not Available | |

Exposure controls

| Appropriate engineering controls | Area where polymer is heat processed should be ventilated to remove vapour, fumes released during all stages of processing. |
|----------------------------------|--|
| Personal protection | |
| Eye and face protection | No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: Safety glasses with side shields. 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 |

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| Hands/feet protection | No special equipment needed when handling small quantities OTHERWISE: ► Cotton gloves When handling hot material, wear ► Protective gloves eg. Leather gloves or gloves with Leather facing |
|-----------------------|---|
| Body protection | See Other protection below |
| Other protection | No special equipment needed when handling small quantities OTHERWISE: ▶ Overalls ▶ Eyewash unit. |
| Thermal hazards | Not Available |

Respiratory protection

Type A 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 | - | A-PAPR-AUS / Class 1 |
| up to 50 x ES | - | A-AUS / Class 1 | - |
| up to 100 x ES | - | A-2 | A-PAPR-2 ^ |

^{^ -} 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 | Black membrane sheet/roll with a slightly pungent odour; insoluble in water. | | |
|--|--|---|----------------|
| Physical state | Manufactured | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Applicable |
| Initial boiling point and boiling range (°C) | Not Applicable | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | >63 | Taste | Not Available |
| Evaporation rate | Not Applicable | Explosive properties | Not Available |
| Flammability | Combustible. | 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 Applicable |
| 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 |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
|------------------------------------|---|
| Chemical stability | Product is considered stable and 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 non-volatile nature of product Inhalation of vapour is more likely at higher than normal temperatures. The vapour from heated material is

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| | amp;5040 amp;5400 | | | |
|--|---|--|---|--|
| Ingestion | Not normally a hazard due to physical form of product. | | | |
| Skin Contact | Skin contact does not normally present a hazard, though it is always possible that occasionally individuals may be found who react to substances usually regarded as inert. | | | |
| Eye | Not normally a hazard due to physical form of product. | Not normally a hazard due to physical form of product. | | |
| Chronic | Long-term exposure to the product is not thought to produce ch nevertheless exposure by all routes should be minimised as a n The additives are immobilised in the rubber and do not present | natter of course. | | |
| Ardex WPM1000 Undertile | тохісіту | IRRITATION | | |
| Butynol | Not Available | Not Available | | |
| | TOXICITY | IRRITATION | | |
| carbon black | Dermal (rabbit) LD50: >3000 mg/kg ^[2] | Not Available | | |
| | Oral (rat) LD50: >8000 mg/kg ^[1] | 1 | | |
| | тохісіту | IRRITATION | | |
| isobutylene homopolymer | dermal (rat) LD50: >2000 mg/kg ^[1] | Not Available | | |
| | Oral (rat) LD50: >2000 mg/kg ^[1] | 1 | | |
| iaanzana hamanahamar | TOXICITY | IRRITATION | | |
| isoprene homopolymer | Not Available | Not Available | | |
| | | ı | | |
| Legend: | Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical States. | | rom manufacturer's SDS. Unless otherwise specified data | |
| Legend: | | ubstances | | |
| · | extracted from RTECS - Register of Toxic Effect of chemical Si WARNING: This substance has been classified by the IARC a | ubstances as Group 2B: Possibly Carcinogen | | |
| CARBON BLACK & ISOBUTYLENE HOMOPOLYMER & ISOPRENE | extracted from RTECS - Register of Toxic Effect of chemical States and the states of the substance has been classified by the IARC and Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported | ubstances as Group 2B: Possibly Carcinogen | | |
| CARBON BLACK & ISOBUTYLENE HOMOPOLYMER & ISOPRENE HOMOPOLYMER | WARNING: This substance has been classified by the IARC a Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported No significant acute toxicological data identified in literature se | ubstances as Group 2B: Possibly Carcinogen arch. | ic to Humans. | |
| CARBON BLACK & ISOBUTYLENE HOMOPOLYMER & ISOPRENE HOMOPOLYMER Acute Toxicity | WARNING: This substance has been classified by the IARC a Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported No significant acute toxicological data identified in literature se | as Group 2B: Possibly Carcinogen earch. Carcinogenicity | ic to Humans. | |
| CARBON BLACK & ISOBUTYLENE HOMOPOLYMER & ISOPRENE HOMOPOLYMER Acute Toxicity Skin Irritation/Corrosion Serious Eye | WARNING: This substance has been classified by the IARC a Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported No significant acute toxicological data identified in literature se | as Group 2B: Possibly Carcinogen arch. Carcinogenicity Reproductivity | ic to Humans. | |

Legend:

X − Data available but does not fill the criteria for classification
 ✓ − Data required to make classification available

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Legend:

| Ingredient | Endpoint | Test Duration (hr) | Species | Value | Source |
|-------------------------|---------------------------|----------------------------------|--|-------------------------------|----------------------|
| carbon black | LC50 | 96 | Fish | =1000mg/L | 1 |
| carbon black | EC50 | 24 | Crustacea | >5600mg/L | 1 |
| carbon black | NOEC | 96 | Fish | =1000mg/L | 1 |
| isobutylene homopolymer | LC50 | 96 | Fish | 6.473mg/L | 3 |
| isobutylene homopolymer | EC50 | 96 | Algae or other aquatic plants | 17.437mg/L | 3 |
| isobutylene homopolymer | EC50 | 384 | Crustacea | 1.561mg/L | 3 |
| isoprene homopolymer | LC50 | 96 | Fish | 4.364mg/L | 3 |
| isoprene homopolymer | EC50 | 96 | Algae or other aquatic plants | 10.375mg/L | 3 |
| isoprene homopolymer | EC50 | 384 | Crustacea | 1.061mg/L | 3 |
| | Extracted from 1 II ICL I | D Tovicity Data 2 Europe ECHA Re | egistered Substances - Ecotoxicological Info | ormation - Aquatic Toxicity 3 | FPIWIN Suite V3 12 . |

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite 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) - Bioconcentration Data 8. Vendor Data

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|-------------------------|-------------------------|------------------|
| isobutylene homopolymer | LOW | LOW |

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isoprene homopolymer LOW LOW

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|-------------------------|-----------------------|
| isobutylene homopolymer | LOW (LogKOW = 2.2256) |
| isoprene homopolymer | LOW (LogKOW = 2.5803) |

Mobility in soil

| Ingredient | Mobility |
|-------------------------|-------------------|
| isobutylene homopolymer | LOW (KOC = 35.04) |
| isoprene homopolymer | LOW (KOC = 67.7) |

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

| 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

CARBON BLACK(1333-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

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

Monographs

ISOBUTYLENE HOMOPOLYMER(9003-27-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

ISOPRENE HOMOPOLYMER(9003-31-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List
Passenger and Cargo Aircraft

| | . accorder and odigo moral. |
|----------------------------------|---|
| National Inventory | Status |
| Australia - AICS | Υ |
| Canada - DSL | Υ |
| Canada - NDSL | N (isoprene homopolymer; isobutylene homopolymer; carbon black) |
| China - IECSC | Υ |
| Europe - EINEC / ELINCS / NLP | N (isoprene homopolymer) |
| 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 = 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

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Other information

Ingredients with multiple cas numbers

| Name | CAS No |
|-------------------------|-------------------------------------|
| isobutylene homopolymer | 9003-27-4, 9003-29-6 |
| isoprene homopolymer | 9003-31-0, 104389-31-3, 104389-32-4 |

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

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

 ${\sf PC-TWA: Permissible \ Concentration-Time \ Weighted \ Average}$

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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