

Ardex (Ardex Australia)

Chemwatch: 67341 Version No: 5.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 26/11/2015 Print Date: 30/11/2015 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 Isoflex Powder
Synonyms	ceramic tile adhesive
Other means of identification	Not Available

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

Relevant identified uses

► Material is mixed and used in accordance with manufacturers directions Mix with Isoflex Liquid to form ceramic tile adhesive.

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	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

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

CHEMWATCH HAZARD RATINGS



Poisons Schedule	Not Applicable	
GHS Classification [1]	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, STOT - SE (Resp. Irr.) Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

Label elements

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SIGNAL WORD

DANGE

Hazard statement(s)

H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

Precautionary statement(s) Prevention

	•
P271 Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P362	Take off contaminated clothing and wash before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	

Precautionary statement(s) Storage

P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

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
65997-15-1	10-60	portland cement
Not Available	10-60	rubber crumbed
14808-60-7.	10-30	graded sand

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 dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.
Ingestion	 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. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

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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 None known.

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.
- Non combustible.

Fire/Explosion Hazard

▶ Not considered a significant fire risk, however containers may burn.

Decomposes on heating and produces toxic fumes of: carbon monoxide (CO) carbon dioxide (CO2)

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills

- ► Clean up all spills immediately.
- Avoid contact with skin and eves.
- ▶ Wear impervious gloves and safety glasses.
- ▶ Use dry clean up procedures and avoid generating dust.

Major Spills

- ▶ Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact with the substance, by using protective equipment and dust respirator.
- ▶ Prevent spillage from entering drains, sewers or water courses.

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

- ▶ Keep dry.
- Store under cover.
 - Protect containers against physical damage.
 - Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag.

NOTE: Bags should be stacked, blocked, interlocked, and limited in height so that they are stable and secure against sliding or collapse. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer.

Storage incompatibility

Segregate from amp;44n

Avoid storage with oxidisers

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	portland cement	Portland cement	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	graded sand	Silica - Crystalline Quartz (respirable dust) / Quartz (respirable dust)	0.1 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	Material name I EEL-1		TEEL-3	
graded sand	Silica, crystalline-quartz; (Silicon dioxide)	0.025 mg/m3	0.025 mg/m3	0.025 mg/m3	
Ingredient	Original IDLH	Re	Revised IDLH		
portland cement	N.E. mg/m3 / N.E. ppm	5,0	5,000 mg/m3		
rubber crumbed	Not Available	No	Not Available		
graded sand	N.E. mg/m3 / N.E. ppm 50 mg/m3				

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Exposure controls

Use in a well-ventilated area Appropriate engineering controls General exhaust is adequate under normal operating conditions. Personal protection ▶ Safety glasses with side shields; or as required, Chemical goggles. Eye and face protection ► 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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Skin protection See Hand protection below ► Barrier cream Hands/feet protection amp;11a amp;72pvc amp;11o amp;72leath ▶ Safety footwear **Body protection** See Other protection below Overalls. Other protection ► Eyewash unit. Thermal hazards Not Available

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

^{* -} Negative pressure demand ** - Continuous flow

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	White to grey odourless powder; insoluble in water.		
Physical state	Divided Solid	Relative density (Water = 1)	0.9 approx.
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)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	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)	0.5 maximum
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
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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

ormation on toxicologi	cal effects		
Inhaled	Generated dust may be discomforting Effects on lungs are significantly enhanced in the presence of respirable particles. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.		
Ingestion	The material has NOT been classified by EC Directives or other classification sys animal or human evidence.	stems as "harmfo	al by ingestion". This is because of the lack of corroborating
Skin Contact	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Products when wet may be quite alkaline and this alkali action on the skin may contribute to cement contact dermatitis by causing drying and defatting of the skin which may be followed by hardening, cracking, development of lesions, possible infections of lesions and penetration by soluble salts. Cement dust is an allergen with skin contact and/or dust inhalation possibly causing allergic response or even sensitisation responses The material may accentuate any pre-existing dermatitis condition		
Eye	If applied to the eyes, this material causes severe eye damage.		
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways in There is some evidence that inhaling this product is more likely to cause a sensitis There is limited evidence that, skin contact with this product is more likely to cause population. Cement contact dermatitis (CCD) may occur when contact shows an allergic respiratormates (chromate compounds) present in trace amounts in some cements and dermatitis can be characterised by fissures, eczematous rash, dystrophic nails, an necrosis.	sation reaction in e a sensitisation ponse, which ma I cement product	some persons compared to the general population. reaction in some persons compared to the general y progress to sensitisation. Sensitisation is due to soluble s. Soluble chromates readily penetrate intact skin. Cement
	TOXICITY	IRRITATION	
Ardex Isoflex Powder		Not Available	
	TOXICITY	IRRITATION	
portland cement		Not Available	
·	Not Available		
portland cement	Not Available TOXICITY	Not Available	
·	Not Available TOXICITY	Not Available IRRITATION Not Available	om manufacturer's SDS. Unless otherwise specified data
graded sand	Not Available TOXICITY Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.*	IRRITATION Not Available Value obtained fi pecific to this preurticaria or Quine ic skin reactions e material cease ure to high levels lividual, with abnupirometry, with the	oduct. cke's oedema. The pathogenesis of contact eczema involve, e.g. contact urticaria, involve antibody-mediated immune s. This may be due to a non-allergenic condition known as of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes are presence of moderate to severe bronchial hyperreactivity
graded sand Legend:	TOXICITY Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Vextracted from RTECS - Register of Toxic Effect of chemical Substances The following information refers to contact allergens as a group and may not be s Contact allergies quickly manifest themselves as contact eczema, more rarely as a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allerg reactions. Asthma-like symptoms may continue for months or even years after exposure to the reactive airways dysfunction syndrome (RADS) which can occur following exposure to hours of a documented exposure to the irritant. A reversible airflow pattern, on s on methacholine challenge testing and the lack of minimal lymphocytic inflammatic of RADS.	IRRITATION Not Available Value obtained fi pecific to this preurticaria or Quine ic skin reactions e material cease ure to high levels lividual, with abnupirometry, with the	oduct. cke's oedema. The pathogenesis of contact eczema involve, e.g. contact urticaria, involve antibody-mediated immune s. This may be due to a non-allergenic condition known as of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes are presence of moderate to severe bronchial hyperreactivity
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graded sand Legend: PORTLAND CEMENT GRADED SAND Acute Toxicity	TOXICITY Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Vextracted from RTECS - Register of Toxic Effect of chemical Substances The following information refers to contact allergens as a group and may not be s Contact allergies quickly manifest themselves as contact eczema, more rarely as a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allerg reactions. Asthma-like symptoms may continue for months or even years after exposure to the reactive airways dysfunction syndrome (RADS) which can occur following exposure to hours of a documented exposure to the irritant. A reversible airflow pattern, on son methacholine challenge testing and the lack of minimal lymphocytic inflammation of RADS. No significant acute toxicological data identified in literature search. Car Re	Not Available IRRITATION Not Available Value obtained fit pecific to this prounticaria or Quincilic skin reactions e material cease ure to high levels lividual, with abnupirometry, with the properior on, without eosin	oduct. cke's oedema. The pathogenesis of contact eczema involve, e.g. contact urticaria, involve antibody-mediated immune s. This may be due to a non-allergenic condition known as of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes are presence of moderate to severe bronchial hyperreactivity ophilia, have also been included in the criteria for diagnosis
graded sand Legend: PORTLAND CEMENT GRADED SAND Acute Toxicity Skin Irritation/Corrosion Serious Eye	TOXICITY Not Available 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Vextracted from RTECS - Register of Toxic Effect of chemical Substances The following information refers to contact allergens as a group and may not be s Contact allergies quickly manifest themselves as contact eczema, more rarely as a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allerg reactions. Asthma-like symptoms may continue for months or even years after exposure to the reactive airways dysfunction syndrome (RADS) which can occur following exposure to hours of a documented exposure to the irritant. A reversible airflow pattern, on son methacholine challenge testing and the lack of minimal lymphocytic inflammation of RADS. No significant acute toxicological data identified in literature search. Car Re	IRRITATION Not Available Value obtained fi pecific to this prounticaria or Quinquic skin reactions e material cease ure to high levels dividual, with abn pirometry, with thon, without eosin crinogenicity productivity gle Exposure	oduct. cke's oedema. The pathogenesis of contact eczema involve, e.g. contact urticaria, involve antibody-mediated immune s. This may be due to a non-allergenic condition known as 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 ophilia, have also been included in the criteria for diagnosis

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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Legend:	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				

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

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 $\label{eq:control_control_control}$

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

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

SECTION 15 REGULATORY INFORMATION

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

PORTLAND CEMENT(65997-15-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

 \parallel GRADED SAND(14808-60-7.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

Australia Hazardous Substances (IARC) - Agents Classified by the IARC

Monographs

National Inventory Status Australia - AICS Υ Υ Canada - DSI Canada - NDSL N (portland cement; graded sand) Υ China - IECSC Europe - EINEC / ELINCS / Υ NLP Japan - ENCS N (portland cement) Υ Korea - KECI Υ New Zealand - NZIoC Philippines - PICCS N (portland cement) Υ USA - TSCA

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Y = All ingredients are on the inventory Legend: 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

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.

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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