

# Ardex A30 Ardex (Ardex NZ)

Chemwatch: **5437-79** Version No: **2.1.1.1** 

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

#### Chemwatch Hazard Alert Code: 3

Issue Date: **02/12/2020**Print Date: **21/01/2021**S.GHS.NZL.EN

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

Product Identifier	
Product name	Ardex A30
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses Patching compound.

### Details of the supplier of the safety data sheet

Registered company name	Ardex (Ardex NZ)
Address	32 Lane Street Woolston Christchurch New Zealand
Telephone	+64 3384 3029
Fax	+64 3384 9779
Website	Not Available
Email	Not Available

# Emergency telephone number

Association / Organisation	Ardex (Ardex NZ)
Emergency telephone numbers	+64 3 373 6900
Other emergency telephone numbers	0800 764 766 (NZ NPC)

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

### ChemWatch Hazard Ratings

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

Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Serious Eye Damage Category 1, Carcinogenicity Category 1, Specific target organ toxicity - single exposure Category 1, Specific target organ toxicity - repeated exposure Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	6.3A, 8.3A, 6.5B (contact), 6.7A, 6.9A

Issue Date: 02/12/2020 Print Date: 21/01/2021

#### Hazard pictogram(s)







Signal word
-------------

#### Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H350	May cause cancer.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.

#### 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.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P321	Specific treatment (see advice on this label).

### Precautionary statement(s) Storage

P405	Store locked up.
------	------------------

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

### Substances

See section below for composition of Mixtures

### **Mixtures**

CAS No	%[weight]	Name
65997-16-2	30-60	calcium aluminate cement
14808-60-7.	30-60	graded sand
7778-18-9	10-30	calcium sulfate
65997-15-1	1-10	portland cement
1317-65-3	1-10	calcium carbonate
Not Available	balance	Ingredients determined not to be hazardous

### **SECTION 4 First aid measures**

### Description of first aid measures

Immediately hold eyelids apart and flush the eye continuously with running water. Figure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper **Eve Contact** and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Transport to hospital or doctor without delay.

If this product comes in contact with the eyes:

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

#### If skin or hair contact occurs:

# **Skin Contact**

Immediately flush body and clothes with large amounts of water, using safety shower if available.

- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- ► Transport to hospital, or doctor.

#### • If fumes or combustion products are inhaled remove from contaminated area.

- Lay patient down. Keep warm and rested. Inhalation
  - Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
  - Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.

Ardex A30

Perform CPR if necessary Transport to hospital, or doctor, without delay. lacktriangledown IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. ▶ For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Ingestion Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: F INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.

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

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

### 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 resu
---

#### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Solid which exhibits difficult combustion or is difficult to ignite.</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.</li> <li>Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.</li> <li>Decomposes on heating and produces: carbon monoxide (CO) carbon dioxide (CO) sulfur oxides (SOx) silicon dioxide (SiO2) metal oxides (SiO2) metal oxides (SiO2) metal oxides other pyrolysis products typical of burning organic material.</li> <li>When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>

#### **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 un

nethods and material for containment and cleaning up		
Minor Spills	<ul> <li>Clean up waste regularly and abnormal spills immediately.</li> <li>Avoid breathing dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> </ul>	
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> </ul>	

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

## **SECTION 7 Handling and storage**

Issue Date: 02/12/2020

Print Date: 21/01/2021

Ardex A30

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

### **▶** (

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.

#### Safe handling

- Prevent concentration in hollows and sumps.
- Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)
- Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
- ► Establish good housekeeping practices.
- ▶ Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.

### Other information

- Store in original containers.
- Keep containers securely sealed.
  Store in a cool, dry area protected from environmental extremes.
- ▶ Store away from incompatible materials and foodstuff containers.

### 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

- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid contact with copper, aluminium and their alloys.
- Avoid reaction with oxidising agents

### SECTION 8 Exposure controls / personal protection

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	graded sand	Quartz respirable dust	0.05 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium sulfate	Plaster of Paris (Calcium sulphate)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium sulfate	Calcium sulphate (Gypsum, Plaster of Paris)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	portland cement	Portland cement respirable dust	1 mg/m3	Not Available	Not Available	dsen-Dermal sensitiser
New Zealand Workplace Exposure Standards (WES)	portland cement	Portland cement	3 mg/m3	Not Available	Not Available	dsen-Dermal sensitiser
New Zealand Workplace Exposure Standards (WES)	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium carbonate	Limestone (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	calcium carbonate	Marble (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available

### **Emergency Limits**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
graded sand	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
calcium carbonate	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3

Ingredient	Original IDLH	Revised IDLH
calcium aluminate cement	Not Available	Not Available
graded sand	25 mg/m3 / 50 mg/m3	Not Available
calcium sulfate	Not Available	Not Available
portland cement	5,000 mg/m3	Not Available
calcium carbonate	Not Available	Not Available

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
calcium aluminate cement	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health		

### **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

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

"adds" and "removes" air in the work environment

#### Personal protection











### Eye and face protection

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- Leaving the Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- Alternatively a gas mask may replace splash goggles and face shields.

#### Skin protection

See Hand protection below

Elbow length PVC gloves

#### 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.

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.

Personal hygiene is a key element of effective hand care.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.
- nitrile rubber.
- butyl rubber.

#### Body protection

Hands/feet protection

See Other protection below

# --, p. -----

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

# Other protection

- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Overalls.
- P.V.C apron.
- Barrier cream.
- ► Skin cleansing cream.

### 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:

Ardex A30

Material	СРІ
NATURAL RUBBER	Α
NITRILE	Α

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

\* 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.

## Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 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)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Ardex A30

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

mornation on basic physical and distinuous properties				
Appearance	Dark grey powder; insoluble in water.			
Physical state	Divided Solid	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)	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)	Not Applicable	
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available	
Solubility in water	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	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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**

Skin Contact

#### Information on toxicological effects

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

Inhalation of dusts, generated by the material during the course of normal handling, may produce severe damage to the health of the individual. Relatively small amounts absorbed from the lungs may prove fatal.

Inhaled Inhalation may result in ulcers or sores of the lining of the nose (nasal mucosa), and lung damage.

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 Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract

This material can cause inflammation of the skin on contact in some persons.

The material may accentuate any pre-existing dermatitis condition

Four students received severe hand burns whilst making moulds of their hands with dental plaster substituted for Plaster of Paris. The dental plaster known as "Stone" was a special form of calcium sulfate hemihydrate containing alpha-hemihydrate crystals that provide high compression strength to the moulds. Beta-hemihydrate (normal Plaster of Paris) does not cause skin burns in similar circumstances.

Handling wet cement can cause dermatitis. Cement when wet is quite alkaline and this alkali action on the skin contributes strongly to cement contact dermatitis since it may cause drying and defatting of the skin which is followed by hardening, cracking, lesions developing, possible infections of lesions and penetration by soluble salts.

Skin contact may result in severe irritation particularly to broken skin. Ulceration known as "chrome ulcers" may develop. Chrome ulcers and skin cancer are significantly related.

Open cuts, abraded or irritated skin should not be exposed to this material

Solution of material in moisture on the skin, or perspiration, may increase irritant effects

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin

Ardex A30

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

	prior to the use of the material and ensure that any ex	cternal damage is sultably protected.			
Eye	If applied to the eyes, this material causes severe eye damage.				
Chronic	Long-term exposure to respiratory irritants may result Skin contact with the material is more likely to cause a Substance accumulation, in the human body, may occan also accumulation, in the human body, may occan also accumulation and testing shows long term exposure to aluminium smaller the size, the greater the tendencies of causing Red blood cells and rabbit alveolar macrophages expin another. Both studies showed the substance to be In a small cohort mortality study of workers in a wollar were lower than expected. Wollastonite is a calcium in Cement contact dermatitis (CCD) may occur when coto soluble chromates (chromate compounds) present penetrate intact skin. Cement dermatitis can be charahighly alkaline mixtures may cause localised necrosis Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. Chromium (III) is an essential trace mineral. Chronic of fluid in the lungs, and adverse effects on white blood Levels above 10 micrograms per cubic metre of susponse susceptible people.	a sensitisation reaction in some perso- cur and may cause some concern follow m oxides may cause lung disease and g harm.  sosed to calcium silicate insulation mat more cytotoxic than titanium dioxide b stonite quarry, the observed number o nosilicate mineral (CaSiO3).  sontact shows an allergic response, whi in trace amounts in some cements an acterised by fissures, eczematous rash socause changes in lung function i.e. pn exposure to chromium (III) irritates the cells, and also increases the risk of de	ns compared to the general population.  In some a cancer, depending on the size of the particle. The serials in vitro showed haemolysis in one study but not ut less toxic than asbestos.  If deaths from all cancers combined and lung cancer can may progress to sensitisation. Sensitisation is due doement products. Soluble chromates readily, dystrophic nails, and dry skin; acute contact with eumoconiosis, caused by particles less than 0.5 airways, malnourishes the liver and kidneys, causes veloping lung cancer.		
	TOXICITY	IRRITATION			
Ardex A30	Not Available	Not Available			
	1007.114.114.11	Titti/Titaliasis			
	TOXICITY	IRRITATION			
calcium aluminate cement	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available			
	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>				
	TOXICITY	IRRITATION			
graded sand	Oral(Rat) LD50; =500 mg/kg <sup>[2]</sup>	Not Available			
	Grai(Nat) ED30, =300 Hig/kg-7	TTOCTTVAIIGOIO			
calcium sulfate	TOXICITY	IRRITATION			
Calcium Sunate	Oral(Rat) LD50; >1581 mg/kg <sup>[1]</sup> Not Available				
	TOXICITY	IRRITATION			
portland cement	Not Available	Not Available			
	TOXICITY	IRRITATION			
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>   Eye (rabbit): 0.75 mg/24h - SEVERE				
calcium carbonate	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup> Eye: no adverse effect observed (not irritating) <sup>[1]</sup>				
		-	0 mg/24h-moderate		
		Skin: no adverse	effect observed (not irritating) <sup>[1]</sup>		
I agar -l:	Value obtained from Europe ECHA Registered Sul	hstances - Acute toxicity 2 * Value obta			
Legend:	3		nined from manufacturer's SDS. Unless otherwise		
Legena:	specified data extracted from RTECS - Register of To	•	nined from manufacturer's SDS. Unless otherwise		
CALCIUM SULFATE	, ,	exic Effect of chemical Substances  eye, mucous membranes, and airway ays diseases.  bosum manufacturing plant found restric	rs. A series of studies involving Gypsum industry stive defects on long-function tests in those who were		
	Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airw. Repeat dose toxicity: Examination of workers at a gypchronically exposed to gypsum dust.	eye, mucous membranes, and airway ays diseases.  Desum manufacturing plant found restrict to the protective on quartz toxicity in animals a group and may not be specific to the tact eczema, more rarely as urticaria comune reaction of the delayed type. Other prificance of the contact allergen is not	rs. A series of studies involving Gypsum industry stive defects on long-function tests in those who were all testing.  his product.  r Quincke's oedema. The pathogenesis of contact er allergic skin reactions, e.g. contact urticaria,		
CALCIUM SULFATE	Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airw. Repeat dose toxicity: Examination of workers at a gypchronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to the following information refers to contact allergens at Contact allergies quickly manifest themselves as contact allergies a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The signistribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence The material may produce severe irritation to the eye produce conjunctivitis.	eye, mucous membranes, and airway ays diseases.  Desum manufacturing plant found restrict to the protective on quartz toxicity in animals as a group and may not be specific to the tact eczema, more rarely as urticaria comune reaction of the delayed type. Other profiscance of the contact allergen is not contact with it are equally important.  Of mutagenic or teratogenic effects. causing pronounced inflammation. Reference of the contact difflammation.	rs. A series of studies involving Gypsum industry stive defects on long-function tests in those who were all testing.  his product.  or Quincke's oedema. The pathogenesis of contact er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the		
CALCIUM SULFATE PORTLAND CEMENT	Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airwing Repeat dose toxicity: Examination of workers at a gypchronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to the following information refers to contact allergies a Contact allergies quickly manifest themselves as contect and involves a cell-mediated (T lymphocytes) imprinvolve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence The material may produce severe irritation to the eye produce conjunctivitis.	eye, mucous membranes, and airway ays diseases.  Desum manufacturing plant found restrict to the protective on quartz toxicity in animals as a group and may not be specific to the stact eczema, more rarely as urticaria of the delayed type. Other protective of the contact allergen is not contact with it are equally important.  Of mutagenic or teratogenic effects, causing pronounced inflammation. Reful or repeated exposure and may product oven years after exposure to the materia (DS) which can occur after exposure to the previous airways disease in a non-atopocumented exposure to the irritant. Other	rs. A series of studies involving Gypsum industry stive defects on long-function tests in those who were all testing.  his product.  r Quincke's oedema. The pathogenesis of contact er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may ce on contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main pic individual, with sudden onset of persistent their criteria for diagnosis of RADS include a reversible		
CALCIUM SULFATE  PORTLAND CEMENT  CALCIUM CARBONATE  CALCIUM ALUMINATE CEMENT & CALCIUM SULFATE & PORTLAND CEMENT & CALCIUM	Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airw. Repeat dose toxicity: Examination of workers at a gypchronically exposed to gypsum dust.  Synergistic/antagonistic effects: Gypsum appears to be the following information refers to contact allergens as Contact allergies quickly manifest themselves as contect allergies quickly manifest themselves as contect allergies quickly manifest themselves as contected involves and the opportunities for the substance and the opportunities for the workers of carcinogenic properties. No evidence The material may produce severe irritation to the eye produce conjunctivitis.  The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin.  Asthma-like symptoms may continue for months or extension and the symptoms within minutes to hours of a da airflow pattern on lung function tests, moderate to severe irritation of the skin.	eye, mucous membranes, and airway ays diseases.  Desum manufacturing plant found restrict to the protective on quartz toxicity in animals as a group and may not be specific to the fact eczema, more rarely as urticaria of the delayed type. Other protective of the contact allergen is not contact with it are equally important.  Of mutagenic or teratogenic effects, causing pronounced inflammation. Reful or repeated exposure and may product oven years after exposure to the materia (NDS) which can occur after exposure to previous airways disease in a non-atop occumented exposure to the irritant. Other processing the process of the pro	rs. A series of studies involving Gypsum industry stive defects on long-function tests in those who were all testing.  his product.  r Quincke's oedema. The pathogenesis of contact er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may ce on contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main pic individual, with sudden onset of persistent their criteria for diagnosis of RADS include a reversible		
CALCIUM SULFATE  PORTLAND CEMENT  CALCIUM CARBONATE  CALCIUM ALUMINATE CEMENT & CALCIUM SULFATE & PORTLAND CEMENT & CALCIUM CARBONATE  CALCIUM ALUMINATE CEMENT & GRADED SAND &	Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airw. Repeat dose toxicity: Examination of workers at a gypchronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to be a Contact allergies quickly manifest themselves as contect allergies quickly manifest themselves as contect allergies quickly manifest themselves as contect allergies quickly manifest themselves as contected involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The sig distribution of the substance and the opportunities for No evidence of carcinogenic properties. No evidence The material may produce severe irritation to the eye produce conjunctivitis.  The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin.  Asthma-like symptoms may continue for months or extensive airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of pasthma-like symptoms within minutes to hours of a deairflow pattern on lung function tests, moderate to sextymphocytic inflammation, without eosinophilia.	eye, mucous membranes, and airway ays diseases.  Desum manufacturing plant found restrict to the protective on quartz toxicity in animals as a group and may not be specific to the fact eczema, more rarely as urticaria of the delayed type. Other protective of the contact allergen is not contact with it are equally important.  Of mutagenic or teratogenic effects, causing pronounced inflammation. Reful or repeated exposure and may product oven years after exposure to the materia (NDS) which can occur after exposure to previous airways disease in a non-atop occumented exposure to the irritant. Other processing the process of the pro	rs. A series of studies involving Gypsum industry stive defects on long-function tests in those who were all testing.  his product.  r Quincke's oedema. The pathogenesis of contact er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the expeated or prolonged exposure to irritants may ce on contact skin redness, swelling, the production of all ends. This may be due to a non-allergic condition of high levels of highly irritating compound. Main pic individual, with sudden onset of persistent their criteria for diagnosis of RADS include a reversible		

Page 8 of 11

Ardex A30

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	<b>✓</b>	STOT - Repeated Exposure	<b>~</b>
Mutagonicity	¥	Aspiration Hazard	¥

Logond

Data either not available or does not fill the criteria for classification
 Data available to make classification

### **SECTION 12 Ecological information**

### Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Ardex A30	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>100mg/L	2
calcium aluminate cement	EC50	48	Crustacea		2
	EC50	72	Algae or other aquatic plants	3.6mg/L	2
	NOEC	72	Algae or other aquatic plants	2.6mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
graded sand	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	LC50	96	Fish	>79mg/L	2
calcium sulfate	EC50	72	Algae or other aquatic plants	>79mg/L	2
	EC0	96	Crustacea	=1255.000mg/L	1
	NOEL	3696	Not Available	1.25g/eu	4
	Endpoint	Test Duration (hr)	Species	Value	Source
portland cement	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	LC50	96	Fish	>56000mg/L	4
calcium carbonate	EC50	72	Algae or other aquatic plants	>14mg/L	2
	EC10	72	Algae or other aquatic plants	>14mg/L	2
	NOEL	1332.0	Not Available	1.0% w/w	4
Legend:	V3.12 (QSAR	) - Aquatic Toxicity Data (Estimated) 4.	CHA Registered Substances - Ecotoxicological Ini US EPA, Ecotox database - Aquatic Toxicity Data TI (Japan) - Bioconcentration Data 8. Vendor Dat	a 5. ECETOC Aquatic Hazard	

### DO NOT discharge into sewer or waterways.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
calcium sulfate	HIGH	HIGH

### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
calcium sulfate	LOW (LogKOW = -2.2002)	

## Mobility in soil

Ingredient	Mobility
calcium sulfate	LOW (KOC = 6.124)

### **SECTION 13 Disposal considerations**

### Waste treatment methods

### Product / Packaging disposal

- ▶ 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.

Ardex A30

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

### Land transport (UN): 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

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

•	
Product name	Group
calcium aluminate cement	Not Available
graded sand	Not Available
calcium sulfate	Not Available
portland cement	Not Available
calcium carbonate	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
calcium aluminate cement	Not Available
graded sand	Not Available
calcium sulfate	Not Available
portland cement	Not Available
calcium carbonate	Not Available

# **SECTION 15 Regulatory information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002545	Construction Products (Toxic [6.7A]) Group Standard 2017	

### calcium aluminate cement is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### graded sand is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### calcium sulfate is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### portland cement is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

Ardex A30

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

#### calcium carbonate is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### **Hazardous Substance Location**

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

#### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

#### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
6.5A or 6.5B	120	1	3	

#### **Tracking Requirements**

Not Applicable

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (calcium aluminate cement; graded sand; calcium sulfate; portland cement)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (portland cement)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	No (calcium aluminate cement; portland cement)		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (calcium aluminate cement)		
Vietnam - NCI	Yes		
Russia - ARIPS	No (calcium aluminate cement)		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

### **SECTION 16 Other information**

Revision Date	02/12/2020
Initial Date	02/12/2020

### **SDS Version Summary**

Version	Issue Date	Sections Updated
2.1.1.1	02/12/2020	Classification, Ingredients

#### 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.

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**

 $\begin{array}{lll} {\sf PC-TWA: Permissible Concentration-Time Weighted Average} \\ {\sf PC-STEL: Permissible Concentration-Short Term Exposure Limit} \end{array}$ 

IARC: International Agency for Research on Cancer

Page **11** of **11 Ardex A30** 

Issue Date: **02/12/2020**Print Date: **21/01/2021** 

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

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.