

Ardex LQ 92 Ardex (Ardex NZ)

Chemwatch: **4712-58** Version No: **5.1.1.1** Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

Issue Date: 01/11/2019 Print Date: 06/08/2020 S.GHS.NZL.EN

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

Product Identifier

Product name	Ardex LQ 92
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses Levelling of uneven concrete surfaces prior to the application of floor tiles with conventional ceramic tile adhesives.

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

Classification ^[1]	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 1, Specific target organ toxicity - repeated exposure Category 1
Legend:	1. Classified by Chernwatch; 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), 6.9A



Signal word Danger

Hazard statement(s)

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

Precautionary statement(s) Prevention

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

Precautionary statement(s) Response

P305+P351+P338	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

Store locked up.

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

P405

P501

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
14808-60-7.	30-60	graded sand
65997-15-1	10-30	portland cement
471-34-1	10-30	calcium carbonate
65997-16-2	<10	calcium aluminate cement
7778-18-9	<10	calcium sulfate
Not Available	<10	additives, unregulated

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with 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. 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. 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 fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. 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. Perform CPR if necessary. Transport to hospital, or doctor, without delay.

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Ingestion

Immediately give a glass of water.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

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	
-	Alert Fire Brigade and tell them location and nature of hazard.
Fire Fighting	 Wear breathing apparatus plus protective gloves in the event of a fire.

	i no i ignung	 Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.
Fire/Ex	plosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: sulfur oxides (SOx) silicon dioxide (SiO2) metal oxides May emit poisonous fumes. May emit corrosive fumes.

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. Avoid breathing dust and contact with skin and eyes. Wear protective clothing, gloves, safety glasses and dust respirator. Use dry clean up procedures and avoid generating dust.
Major Spills	Moderate hazard. CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.
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	 WARNING: Avoid or control reaction with peroxides. All <i>transition metal</i> peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively. The pi-complexes formed between chromium(0), vanadium(0) and other transition metals (haloarene-metal complexes) and mono-or poly-fluorobenzene show extreme sensitivity to heat and are explosive. Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. Avoid contact with copper, aluminium and their alloys.

Control parameters

Occupational Exposure Limits (OEL)

Ingredient graded sand portland cement	Material name Quartz respirable dust	TWA	STEL	Peak	Notes
graded sand		0.05		Peak	Notes
	Quartz respirable dust		Not		
portland cement		mg/m3	Available	Not Available	Not Available
	Portland cement respirable dust	1 mg/m3	Not Available	Not Available	dsen-Dermal sensitiser
portland cement	Portland cement	3 mg/m3	Not Available	Not Available	dsen-Dermal sensitiser
calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	Not Available
calcium carbonate	Marble (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available
calcium carbonate	Limestone (Calcium carbonate)	10 mg/m3	Not Available	Not Available	Not Available
calcium sulfate	Plaster of Paris (Calcium sulphate)	10 mg/m3	Not Available	Not Available	Not Available
calcium sulfate	Calcium sulphate (Gypsum, Plaster of Paris)	10 mg/m3	Not Available	Not Available	Not Available
Material name		TEEL-1		TEEL-2	TEEL-3
Silica, crystalline-quartz; (Silicon dioxide)		0.075 mg/m3 33		33 mg/m3	200 mg/m3
Carbonic acid, calcium salt		45 mg/m3		210 mg/m3	1,300 mg/m3
Original IDLH			Revised	IIDLH	
25 mg/m3 / 50 mg/m3 Not Available					
			lable		
Not Available				lable	
Not Available			Not Available		
Not Available			Not Ava	lable	
Occupational Expo	osure Band Rating	Осси	upational Exp	osure Band Limit	
E		≤ 0.0	1 mg/m ³		
adverse health outc	omes associated with exposure. The output of	f this process is	•		
	carbonate calcium carbonate calcium carbonate calcium sulfate	carbonate Calcium carbonate calcium carbonate Marble (Calcium carbonate) calcium carbonate Limestone (Calcium carbonate) calcium sulfate Plaster of Paris (Calcium sulphate) calcium sulfate Calcium sulphate (Gypsum, Plaster of Paris) calcium sulfate Calcium sulphate (Gypsum, Plaster of Paris) Material name Calcium sulphate (Gypsum, Plaster of Paris) Silica, crystalline-quartz; (Silicon dioxide) Carbonic acid, calcium salt Original IDLH 25 mg/m3 / 50 mg/m3 5,000 mg/m3 Song/m3 Not Available Not Available Not Available Calcium salt Occupational Exposure Band Rating E Occupational exposure banding is a process of assigning chemice adverse health outcomes associated with exposure. The output of adverse health outcomes associated with exposure. The output of adverse health outcomes associated with exposure. The output of adverse health outcomes associated with exposure. The output of adverse health outcomes associated with exposure.	carbonate Calcium carbonate 10 mg/m3 calcium carbonate Marble (Calcium carbonate) 10 mg/m3 calcium carbonate Limestone (Calcium carbonate) 10 mg/m3 calcium sulfate Plaster of Paris (Calcium sulphate) 10 mg/m3 calcium sulfate Calcium sulphate (Gypsum, Plaster of Paris) 10 mg/m3 Material name Calcium sulphate (Gypsum, Plaster of Paris) 10 mg/m3 Silica, crystalline-quartz; (Silicon dioxide) 0.075 mg/m3 Carbonic acid, calcium salt 45 mg/m3 Original IDLH 25 mg/m3 / 50 mg/m3 5,000 mg/m3 Not Available Not Available Not Available Not Available Occupational Exposure Band Rating Occupational exposure banding is a process of assigning chemicals into specific	carbonateCalcium carbonate10 mg/m3Availablecalcium carbonateMarble (Calcium carbonate)10 mg/m3Not Availablecalcium carbonateLimestone (Calcium carbonate)10 mg/m3Not Availablecalcium sulfatePlaster of Paris (Calcium sulphate)10 mg/m3Not Availablecalcium sulfateCalcium sulphate (Gypsum, Plaster of Paris)10 mg/m3Not AvailableMaterial nameCalcium sulphate (Gypsum, Plaster of Paris)10 mg/m3Not AvailableMaterial nameCalcium sulphate (Gypsum, Plaster of Paris)0.075 mg/m3Not AvailableCarbonic acid, calcium salt0.075 mg/m3RevisedSilica, crystalline-quartz; (Silicon dioxide)0.075 mg/m3RevisedCoriginal IDLHKevisedNot AvailableNot AvailableSolo mg/m3So mg/m3Not AvailableNot AvailableNot AvailableNot AvailableNot AvailableNot AvailableNot AvailableCacupational Exposure Band RatingOccupational sinto specific categories or b adverse health outcomes associated with exposure. The output of this process is an occupation	carbonate Calcium carbonate 10 mg/m3 Available Available calcium carbonate Marble (Calcium carbonate) 10 mg/m3 Not Available Not Availa

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 "adds" and "removes" air in the work environment.
Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. 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
Hands/feet protection	 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.

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Body protection See Other protection below

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.

• 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

Appearance	Grey powder; insoluble in water. Loose Bulk Density: 1.3 approx.		
Physical state	Divided Solid	Relative density (Water = 1)	2.6 approx.
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)	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 Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

SECTION 10 Stability and reactivity

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

Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further 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
innaieo	conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures. Effects on lungs are significantly enhanced in the presence of respirable particles.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. The material may accentuate any pre-existing dermatitis condition 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. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Cement contact dermatitis (CCD) may occur when contact shows an allergic response, which may progress to sensitisation. Sensitisation is due to soluble chromates (chromate compounds) present in trace amounts in some cements and cement products. Soluble chromates readily penetrate intact skin. Cement dermatitis can be characterised by fissures, eczematous rash, dystrophic nails, and dry skin; acute contact with highly alkaline mixtures may cause localised necrosis. Overexposure to the breathable dust may cause coughing, wheezing, difficulty in breathing and impaired lung function. Chronic symptoms may include decreased vital lung capacity and chest infections. Repeated exposures in the workplace to high levels of fine-divided dusts may produce a condition known as pneumoconiosis, which is the lodgement of any inhaled dusts in the lung, irrespective of the effect. This is particularly true when a significant number of particles less than 0.5 microns (1/50000 inch) are present.

Ardex LQ 92	ΤΟΧΙϹΙΤΥ	IRRITATION	
	Not Available	Not Available	
graded sand	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (rat) LD50: =500 mg/kg ^[2]	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
portland cement	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 0.75 mg/24h - SEVERE	
calcium carbonate	Oral (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]	
		Skin (rabbit): 500 mg/24h-moderate	
		Skin: no adverse effect observed (not irritating) ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
calcium aluminate cement	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available	
	Oral (rat) LD50: >2000 mg/kg ^[1]		
calcium sulfate	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (rat) LD50: >1581 mg/kg ^[1]	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

PORTLAND CEMENT	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important.
CALCIUM CARBONATE	No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. 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.
CALCIUM SULFATE	Gypsum (calcium sulfate dehydrate) irritates the skin, eye, mucous membranes, and airways. A series of studies involving Gypsum industry workers in Poland reported chronic, non-specific airways diseases. Repeat dose toxicity: Examination of workers at a gypsum manufacturing plant found restrictive defects on long-function tests in those who were

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	chronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to b	e protective on quartz toxicity in anim	al testing.
GRADED SAND & PORTLAND CEMENT & CALCIUM ALUMINATE CEMENT	No significant acute toxicological data identified in liter	ature search.	
PORTLAND CEMENT & CALCIUM CARBONATE & CALCIUM ALUMINATE CEMENT & CALCIUM SULFATE	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	✓
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
	·		not available or does not fill the criteria for classification le to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Ardex LQ 92	Not Available	Not Available	Not Available	Not Available Not Available	
	Endpoint	Test Duration (hr)	Species	Value	Source
graded sand	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
portland cement	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	>56000mg/L	4
calcium carbonate	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants >14mg/L	
	EC10	72	Algae or other aquatic plants	Algae or other aquatic plants >14mg/L	
	NOEC	72	Algae or other aquatic plants	Algae or other aquatic plants 14mg/L	
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	Fish >100mg/L	
calcium aluminate cement	EC50	48	Crustacea	Crustacea 5.4mg/L	
	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants 3.6mg/L	
	NOEC	72	Algae or other aquatic plants	Algae or other aquatic plants 2.6mg/L	
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	LC50	96	Fish	>1-970mg/L	2
calcium sulfate	EC50	72	Algae or other aquatic plants	>79mg/L	2
	EC0	96	Crustacea	Crustacea =1255.000mg/L	
	NOEC	504	Crustacea	360mg/L	4
Legend:	V3.12 (QSAR)		ECHA Registered Substances - Ecotoxicological Infor 4. US EPA, Ecotox database - Aquatic Toxicity Data 5		

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)

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Ingredient	Mobility		

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. 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.

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

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		
HSR002670	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017		
HSR002544	Construction Products (Subsidiary Hazard) Group St	Construction Products (Subsidiary Hazard) Group Standard 2017	
HSR002503	Additives, Process Chemicals and Raw Materials (Su	ibsidiary Hazard) Group Standard 2017	
graded sand is found on th	e following regulatory lists		
Chemical Footprint Project - (Chemicals of High Concern List	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classificatio	
	earch on Cancer (IARC) - Agents Classified by the IARC	of Chemicals	
Monographs	earch on Cancer (IARC) - Agents Classified by the IARC	New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classificatio of Chemicals - Classification Data	
Monographs - Group 1 : Card		New Zealand Inventory of Chemicals (NZIoC)	
• • •	irdous Substances with controls	New Zealand Workplace Exposure Standards (WES)	
portland cement is found o	n the following regulatory lists		
New Zealand Inventory of Ch	emicals (NZIoC)	New Zealand Workplace Exposure Standards (WES)	
calcium carbonate is found	on the following regulatory lists		
New Zealand Approved Haza	rdous Substances with controls	New Zealand Inventory of Chemicals (NZIoC)	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals		New Zealand Workplace Exposure Standards (WES)	
New Zealand Hazardous Sub of Chemicals - Classification	stances and New Organisms (HSNO) Act - Classification Data		
calcium aluminate cement i	is found on the following regulatory lists		
New Zealand Inventory of Ch	emicals (NZIoC)		
calcium sulfate is found on	the following regulatory lists		
		New Zealand Workplace Exposure Standards (WES)	

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

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
Not Applicable	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
Not Applicable	Not Applicable

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC	Yes	
Australia - Non-Industrial Use	No (graded sand; portland cement; calcium carbonate; calcium aluminate cement; calcium sulfate)	
Canada - DSL	Yes	
Canada - NDSL	No (graded sand; portland cement; calcium aluminate cement; calcium sulfate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (portland cement)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	No (portland cement; calcium aluminate 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	01/11/2019
Initial Date	01/11/2009

SDS Version Summary

Version	Issue Date	Sections Updated
4.1.1.1	11/02/2016	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Chronic Health, Classification, Disposal, Engineering Control, Fire Fighter (fire/explosion hazard), First Aid (skin), First Aid (swallowed), Personal Protection (Respirator), Personal Protection (eye), Personal Protection (hands/feet), Physical Properties, Spills (minor), Storage (storage incompatibility), Storage (storage requirement), Storage (suitable container)
5.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

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

- 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

Ardex LQ 92

BEI: Biological Exposure Index

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