

Ardex K009 Ardex (Ardex NZ)

Chemwatch: 33-1255 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: **04/08/2020**S.GHS.NZL.EN

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

Product Identifier		
Product name	Ardex K009	
Synonyms	Not Available	
Other means of identification	Not Available	
Relevant identified uses of the	substance or mixture and uses advised against	
Relevant identified uses	Cementitious floor leveller for internal use.	
Details of the supplier of the safety data sheet		
Registered company name	Ardex (Ardex NZ)	

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

Classification ^[1]	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Specific target organ toxicity - single exposure Category 1, Specific target organ toxicity - repeated exposure Category 1 (respiratory tract irritation), 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, 6.9A

Label elements



Hazard pictogram(s)







Signal word Dang	Signal word	Dang
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Hazard statement(s)

H315	Causes skin irritation.	
H318	auses serious eye damage.	
H370	Causes damage to organs.	
H335	May cause respiratory irritation.	
H372	Causes damage to organs through prolonged or repeated exposure.	

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume.	
P271	Use only outdoors or in a well-ventilated area.	
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.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

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
14808-60-7.	10-50	graded sand
471-34-1	10-50	calcium carbonate
65997-15-1	1-9	portland cement
Not Available	<10	additives, unregulated

SECTION 4 First aid measures

Description of first aid measures

comption of mot ala measur	
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.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Issue Date: **01/11/2019**Print Date: **04/08/2020**

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

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.
- Fire/Explosion Hazard
- Not considered a significant fire risk, however containers may burn.

May emit poisonous fumes.

▶ Non combustible

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 transition metal 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

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source Ingredient Material name TWA STEL Peak Notes

Issue Date: **01/11/2019**Print Date: **04/08/2020**

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 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
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)	portland cement	Portland cement	3 mg/m3	Not Available	Not Available	dsen-Dermal sensitiser
New Zealand Workplace Exposure Standards (WES)	portland cement	Portland cement respirable dust	1 mg/m3	Not Available	Not Available	dsen-Dermal sensitiser

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
graded sand	25 mg/m3 / 50 mg/m3	Not Available
calcium carbonate	Not Available	Not Available
portland cement	5,000 mg/m3	Not Available

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 "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

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.

Hands/feet protection

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

See Other protection below

Skin cleansing cream.

Other protection

- Overalls.
- P.V.C apron.
- ► Barrier cream.

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.

Issue Date: **01/11/2019** Print Date: **04/08/2020**

- 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	Off white powder with a characteristic odour; mixes slightly with water.		
Physical state	Divided Solid	Relative density (Water = 1)	1.3 approx. (bulk)
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
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	Partly miscible	pH as a solution (1%)	11 approx.
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

SECTION 11 Toxicological information

Information on toxicological effects

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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 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 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. 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	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. 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.

Page 6 of 9

Ardex K009

Issue Date: 01/11/2019 Print Date: 04/08/2020

Ardex K009	TOXICITY	IRRITATION	
, , , , , , , , , , , , , , , , , , ,	Not Available	Not Available	
	TOXICITY	IRRITATION	
graded sand	Oral (rat) LD50: =500 mg/kg ^[2]	Not Available	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 0.7	5 mg/24h - SEVERE
calcium carbonate	Oral (rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse	effect observed (not irritating) ^[1]
		Skin (rabbit): 500	0 mg/24h-moderate
		Skin: no adverse	e effect observed (not irritating) ^[1]
	тохісіту	IRRITATION	
portland cement	Not Available	Not Available	
Legend:	Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of To:	-	nined from manufacturer's SDS. Unless otherwise
	specified data extracted from RTECS - Register of 103	kic Elicot of chemical oubstances	
CALCIUM CARBONATE	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.	of mutagenic or teratogenic effects. causing pronounced inflammation. Re	, , , , , , , , , , , , , , , , , , , ,
CALCIUM CARBONATE PORTLAND CEMENT	No evidence of carcinogenic properties. No evidence of the material may produce severe irritation to the eye produce conjunctivitis. The material may cause skin irritation after prolonged	of mutagenic or teratogenic effects. causing pronounced inflammation. Re or repeated exposure and may produ s a group and may not be specific to t act eczema, more rarely as urticaria counce reaction of the delayed type. Oth nificance of the contact allergen is not	ce on contact skin redness, swelling, the production this product. or Quincke's oedema. The pathogenesis of contact the allergic skin reactions, e.g. contact urticaria,
	No evidence of carcinogenic properties. No evidence of 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. The following information refers to contact allergens a Contact allergies quickly manifest themselves as contected in the contact allergies of the skin.	of mutagenic or teratogenic effects. causing pronounced inflammation. Re or repeated exposure and may product as a group and may not be specific to the act eczema, more rarely as urticaria or the delayed type. Other inficance of the contact allergen is not contact with it are equally important.	ce on contact skin redness, swelling, the production of this product. or Quincke's oedema. The pathogenesis of contact the allergic skin reactions, e.g. contact urticaria,
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PORTLAND CEMENT GRADED SAND & PORTLAND CEMENT CALCIUM CARBONATE &	No evidence of carcinogenic properties. No evidence of 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. The following information refers to contact allergens a Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The significant involve and the opportunities for No significant acute toxicological data identified in liter Asthma-like symptoms may continue for months or evidence in the substance of pasthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sev	of mutagenic or teratogenic effects. causing pronounced inflammation. Reformed or repeated exposure and may product as a group and may not be specific to the act eczema, more rarely as urticaria to the delayed type. Other inficance of the contact allergen is not contact with it are equally important. The rature search. The repeated exposure to the materia on the product of the contact allergen is not contact with it are equally important. The reference of the contact allergen is not contact with it are equally important. The review of the material of the product of the interview of the interview of the interview of the interview.	ce on contact skin redness, swelling, the production of this product. or Quincke's oedema. The pathogenesis of contact are allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the all ends. This may be due to a non-allergic condition of high levels of highly irritating compound. Main not individual, with sudden onset of persistent the criteria for diagnosis of RADS include a reversible
PORTLAND CEMENT GRADED SAND & PORTLAND CEMENT CALCIUM CARBONATE & PORTLAND CEMENT	No evidence of carcinogenic properties. No evidence of 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. The following information refers to contact allergens a Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The significant involve and the opportunities for No significant acute toxicological data identified in liter Asthma-like symptoms may continue for months or evidence in the symptoms of a diagnosing RADS include the absence of pasthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sevilymphocytic inflammation, without eosinophilia.	of mutagenic or teratogenic effects. causing pronounced inflammation. Re or repeated exposure and may produ s a group and may not be specific to the act eczema, more rarely as urticaria continue reaction of the delayed type. Otherificance of the contact allergen is not contact with it are equally important. The rature search. The search is a cocur after exposure to the materia DS) which can occur after exposure to the irritant. Other ere bronchial hyperreactivity on methic	ce on contact skin redness, swelling, the production his product. or Quincke's oedema. The pathogenesis of contact the allergic skin reactions, e.g. contact urticaria, a simply determined by its sensitisation potential: the pathogeness of highly irritating compound. Main obtained by the sensitisation potential in the pathogeness of highly irritating compound. Main obtained in the pathogeness of highly irritating compound. Main obtained in the pathogeness of RADS include a reversible acholine challenge testing, and the lack of minimal
PORTLAND CEMENT GRADED SAND & PORTLAND CEMENT CALCIUM CARBONATE & PORTLAND CEMENT Acute Toxicity	No evidence of carcinogenic properties. No evidence of 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. The following information refers to contact allergens a Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The significant involve and the opportunities for No significant acute toxicological data identified in liter Asthma-like symptoms may continue for months or evidence in the substance and the opportunities for asthma-like symptoms may continue for months or evidence in the substance of pasthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sevilymphocytic inflammation, without eosinophilia.	of mutagenic or teratogenic effects. causing pronounced inflammation. Reformed to repeated exposure and may product as a group and may not be specific to the act eczema, more rarely as urticariated to the contact exposure of the delayed type. Other inficance of the contact allergen is not contact with it are equally important. The rature search. The search en years after exposure to the material exposure to the contact with it are equally important. The en years after exposure to the material exposure to the irritant. Other ere bronchial hyperreactivity on method exposure to the irritant. Other ere bronchial hyperreactivity on method exposure to the irritant.	ce on contact skin redness, swelling, the production whis product. or Quincke's oedema. The pathogenesis of contact ter allergic skin reactions, e.g. contact urticaria, eximply determined by its sensitisation potential: the all ends. This may be due to a non-allergic condition on high levels of highly irritating compound. Main bic individual, with sudden onset of persistent ter criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal
PORTLAND CEMENT GRADED SAND & PORTLAND CEMENT CALCIUM CARBONATE & PORTLAND CEMENT Acute Toxicity Skin Irritation/Corrosion	No evidence of carcinogenic properties. No evidence of 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. The following information refers to contact allergens a Contact allergies quickly manifest themselves as conteczema involves a cell-mediated (T lymphocytes) imminvolve antibody-mediated immune reactions. The sign distribution of the substance and the opportunities for No significant acute toxicological data identified in liter Asthma-like symptoms may continue for months or evicine known as reactive airways dysfunction syndrome (RAI criteria for diagnosing RADS include the absence of pasthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sevilymphocytic inflammation, without eosinophilia.	of mutagenic or teratogenic effects. causing pronounced inflammation. Re or repeated exposure and may produ is a group and may not be specific to the act eczema, more rarely as urticaria contact exposure of the delayed type. Other inficance of the contact allergen is not contact with it are equally important. The return search. The en years after exposure to the material DS) which can occur after exposure to the revious airways disease in a non-atoget cumented exposure to the irritant. Other ere bronchial hyperreactivity on method and contact in the cont	ce on contact skin redness, swelling, the production of this product. or Quincke's oedema. The pathogenesis of contact are allergic skin reactions, e.g. contact urticaria, as simply determined by its sensitisation potential: the all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main the individual, with sudden onset of persistent the criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal

Legend:

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

SECTION 12 Ecological information

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Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96	Fish	>56000mg/L	4
EC50	72	Algae or other aquatic plants	>14mg/L	2
EC10	72	Algae or other aquatic plants	>14mg/L	2
NOEC	72	Algae or other aquatic plants	14mg/L	2
Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
	Not Available Endpoint Not Available Endpoint LC50 EC50 EC10 NOEC Endpoint Not	Not Available Endpoint Test Duration (hr) Not Available Not Available Endpoint Test Duration (hr) LC50 96 EC50 72 EC10 72 NOEC 72 Endpoint Test Duration (hr) Not Available	Not Available Not Available Endpoint Test Duration (hr) Species Not Available Not Available Endpoint Test Duration (hr) Species LC50 96 Fish EC50 72 Algae or other aquatic plants EC10 72 Algae or other aquatic plants NOEC 72 Algae or other aquatic plants NOEC 72 Algae or other aquatic plants	Not Available Not Available Not Available Endpoint Test Duration (hr) Species Value Not Available Not Available Not Available Endpoint Test Duration (hr) Species Value LC50 96 Fish >56000mg/L EC50 72 Algae or other aquatic plants >14mg/L EC10 72 Algae or other aquatic plants >14mg/L NOEC 72 Algae or other aquatic plants 14mg/L Endpoint Test Duration (hr) Species Value Not Not Available Not Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment

Issue Date: **01/11/2019**Print Date: **04/08/2020**

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

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ► Reuse
- ▶ Recycling
- ► Disposal (if all else fails)

Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ **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

Marin	ne 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 Standard 2017	
HSR002503	Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017	

graded sand is found on the following regulatory lists

Issue Date: **01/11/2019**Print Date: **04/08/2020**

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

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

portland cement is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

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)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

New Zealand Workplace Exposure Standards (WES)

Hazardous Substance Location

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	

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; calcium carbonate; portland cement)		
Canada - DSL	Yes		
Canada - NDSL	No (graded sand; 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 (portland cement)		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - ARIPS	Yes		
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	27/09/2012

SDS Version Summary

Version	Issue Date	Sections Updated
2.1.1.1	27/09/2012	Classification
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

Chemwatch: 33-1255 Page 9 of 9 Version No: 5.1.1.1

Ardex K009

Issue Date: 01/11/2019 Print Date: 04/08/2020

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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