

# MJS L25 Leveller Ardex (Ardex Australia)

Chemwatch: **5427-57** Version No: **2.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

#### Chemwatch Hazard Alert Code: 3

Issue Date: **22/09/2020** Print Date: **22/09/2020** S.GHS.AUS.EN

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

# Product Identifier

Product name	MJS L25 Leveller
Synonyms	Not Available
Other means of identification	Not Available

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

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

Registered company name	Ardex (Ardex Australia)		
Address	Powers Road Seven Hills NSW 2147 Australia		
Telephone	1800 224 070		
Fax	1300 780 102		
Website	Not Available		
Email	Not Available		

#### **Emergency telephone number**

Association / Organisation	Ardex (Ardex Australia)	
Emergency telephone numbers	1800 224 070 (Mon-Fri, 9am-5pm)	
Other emergency telephone numbers	Not Available	

### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

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

#### ChemWatch Hazard Ratings

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

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Skin Sensitizer Category 1, Carcinogenicity Category 1A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)







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Signal word	Danger
Hazard statement(s)	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H335	May cause respiratory irritation.
Precautionary statement(s) Pre	evention
P201	Obtain special instructions before use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
Precautionary statement(s) Re	sponse
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+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
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.	30-60	graded sand
1317-65-3	10-30	calcium carbonate
65997-15-1	10-30	portland cement
65997-16-2	1-10	calcium aluminate cement
7778-18-9	1-10	calcium sulfate.
14808-60-7	<1	silica crystalline - quartz
Not Available	balance	Ingredients determined not to be hazardous

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

#### Description of first aid measures

Description of first aid measur	<del>5</del> 3
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 or hair contact occurs:  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.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> </ul>

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- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

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

Treat symptomatically.

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

#### **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	<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	▶ 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.
HAZCHEM	Not Applicable

#### **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	<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**

Precautions for safe handling	
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	<ul> <li>Avoid strong acids, bases.</li> <li>Avoid contact with copper, aluminium and their alloys.</li> </ul>

#### SECTION 8 Exposure controls / personal protection

#### **Control parameters**

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#### INGREDIENT DATA

INCINEDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	graded sand	Silica - Crystalline: Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	calcium carbonate	Calcium carbonate	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	portland cement	Portland cement	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	calcium sulfate	Calcium sulphate	10 mg/m3	Not Available	Not Available	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust)	0.05 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
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 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
calcium aluminate cement	Not Available	Not Available
calcium sulfate	Not Available	Not Available
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	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 sadverse health outcomes associated with exposure. The output of this processing of exposure concentrations that are expected to protect worker hea	ocess is an occupational exposure band (OEB), which corresponds to a	

#### **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 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.
- 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
- Alternatively a gas mask may replace splash goggles and face shields.

#### Skin protection

#### See Hand protection below

# NOTE:

- ► Elbow length PVC gloves
- Fig. 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

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# Figure 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.
- 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".

Other protection

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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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.
- 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	Solid; 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 Available	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 Available

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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 Available	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**

#### 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

Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. Levels above 10 micrograms per cubic metre of suspended inorganic sulfates in the air may cause an excess risk of asthmatic attacks in

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

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

Effects on lungs are significantly enhanced in the presence of respirable particles.

#### Ingestion

Accidental ingestion of the material may be damaging to the health of the individual.

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

cause contact dermatitis which is characterised by redness, swelling and blistering.

# 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 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

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.

If applied to the eyes, this material causes severe eye damage.

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. There is sufficient evidence to suggest that this material directly causes cancer in humans.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Animal testing shows long term exposure to aluminium oxides may cause lung disease and cancer, depending on the size of the particle. The smaller the size, the greater the tendencies of causing harm.

Red blood cells and rabbit alveolar macrophages exposed to calcium silicate insulation materials in vitro showed haemolysis in one study but not in another. Both studies showed the substance to be more cytotoxic than titanium dioxide but less toxic than asbestos.

In a small cohort mortality study of workers in a wollastonite quarry, the observed number of deaths from all cancers combined and lung cancer were lower than expected. Wollastonite is a calcium inosilicate mineral (CaSiO3).

#### Chronic

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.

Chronic excessive intake of iron have been associated with damage to the liver and pancreas. People with a genetic disposition to poor control over iron are at an increased risk.

Chromium (III) is an essential trace mineral. Chronic exposure to chromium (III) irritates the airways, malnourishes the liver and kidneys, causes fluid in the lungs, and adverse effects on white blood cells, and also increases the risk of developing lung cancer.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

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TOXICITY	IRRITATION
Not Available	Not Available

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	TOXICITY	IRRITATION			
graded sand	0.3 mg/kg <sup>[2]</sup>	Not Available			
9. 4404 04.14	50 mg/kg <sup>[2]</sup>				
	Oral (rat) LD50: =500 mg/kg <sup>[2]</sup>				
	TOXICITY	IRRITATION			
	Oral (rat) LD50: 6450 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.7	5 mg/24h - SEVERE		
calcium carbonate		Eye: no adverse	effect observed (not irritating) <sup>[1]</sup>		
		Skin (rabbit): 50	0 mg/24h-moderate		
		Skin: no adverse	effect observed (not irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION			
portland cement	Not Available	Not Available			
calcium aluminate cement	TOXICITY  Not Available	IRRITATION  Not Available			
	Not Available	Not Available			
	TOXICITY	IRRITATION			
	Oral (mouse) LD50: =4052-4226 mg/kg <sup>[2]</sup>	Not Available			
calcium sulfate	Oral (rat) LD50: >10000 mg/kg <sup>[2]</sup>				
	Oral (rat) LD50: >3000 mg/kg <sup>[2]</sup>				
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>				
	TOXICITY	IRRITATION			
	0.3 mg/kg <sup>[2]</sup>	Not Available			
silica crystalline - quartz	50 mg/kg <sup>[2]</sup>				
	Oral (rat) LD50: =500 mg/kg <sup>[2]</sup>				
Legend:	Value obtained from Europe ECHA Registered Sub	netances - Acute tovicity 2 * Value obt	sinad from manufacturar's SDS. Unless otherwise		
CALCIUM CARBONATE		causing pronounced inflammation. Re	peated or prolonged exposure to irritants may ce on contact skin redness, swelling, the production of		
PORTLAND CEMENT	vesicles, scaling and thickening of the skin.  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	nificance of the contact allergen is not	er allergic skin reactions, e.g. contact urticaria,		
CALCIUM SULFATE		nificance of the contact allergen is not contact with it are equally important. eye, mucous membranes, and airway ays diseases. sum manufacturing plant found restricts	er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the s. A series of studies involving Gypsum industry tive defects on long-function tests in those who were		
CALCIUM SULFATE	distribution of the substance and the opportunities for Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airwa Repeat dose toxicity: Examination of workers at a gyp chronically exposed to gypsum dust.	nificance of the contact allergen is not contact with it are equally important. eye, mucous membranes, and airway ays diseases. sum manufacturing plant found restricted protective on quartz toxicity in animal contact.	er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the s. A series of studies involving Gypsum industry tive defects on long-function tests in those who were all testing.		
CALCIUM SULFATE  SILICA CRYSTALLINE - QUARTZ	distribution of the substance and the opportunities for Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airwa Repeat dose toxicity: Examination of workers at a gyp chronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to be	nificance of the contact allergen is not contact with it are equally important. eye, mucous membranes, and airway ays diseases. sum manufacturing plant found restrict the protective on quartz toxicity in animitance has been classified by the IARC RC) has classified occupational exposon what IARC considered sufficient evartz and cristobalite. Crystalline silica in	er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the s. A series of studies involving Gypsum industry tive defects on long-function tests in those who were all testing.  Eas Group 1: CARCINOGENIC TO HUMANS  ures to respirable (<5 um) crystalline silica as being idence from epidemiological studies of humans for s also known to cause silicosis, a non-cancerous lung		
SILICA CRYSTALLINE -	distribution of the substance and the opportunities for Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airwe Repeat dose toxicity: Examination of workers at a gyp chronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to b WARNING: For inhalation exposure ONLY: This substitute International Agency for Research on Cancer (IAI carcinogenic to humans. This classification is based of the carcinogenicity of inhaled silica in the forms of quadisease.	nificance of the contact allergen is not contact with it are equally important.  eye, mucous membranes, and airway ays diseases.  sum manufacturing plant found restrict the protective on quartz toxicity in animitance has been classified by the IARC RC) has classified occupational exposon what IARC considered sufficient ever artz and cristobalite. Crystalline silica in the protection of t	er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the s. A series of studies involving Gypsum industry tive defects on long-function tests in those who were al testing.  Eas Group 1: CARCINOGENIC TO HUMANS  ures to respirable (<5 um) crystalline silica as being idence from epidemiological studies of humans for s also known to cause silicosis, a non-cancerous lung nours.		
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SILICA CRYSTALLINE - QUARTZ  GRADED SAND & PORTLAND CEMENT & CALCIUM ALUMINATE CEMENT  CALCIUM CARBONATE & PORTLAND CEMENT & CALCIUM ALUMINATE CEMENT & CALCIUM	distribution of the substance and the opportunities for Gypsum (calcium sulfate dehydrate) irritates the skin, workers in Poland reported chronic, non-specific airwa Repeat dose toxicity: Examination of workers at a gyp chronically exposed to gypsum dust. Synergistic/antagonistic effects: Gypsum appears to be WARNING: For inhalation exposure ONLY: This substitute International Agency for Research on Cancer (IAI carcinogenic to humans . This classification is based of the carcinogenicity of inhaled silica in the forms of quadisease. Intermittent exposure produces; focal fibrosis, (pneum * Millions of particles per cubic foot (based on impinge NOTE : the physical nature of quartz in the product dimaterial must enter the breathing zone as respirable publication is produced in the forms of each carcinogenic to the carcinogenic to the carcinogenic to the carcinogenic to humans and the forms of quarts in the forms of the carcinogenic to humans are captured foot (based on impingent Notes). The physical nature of quartz in the product dimaterial must enter the breathing zone as respirable publication and the product display the patternative airways dysfunction syndrome (RA criteria for diagnosing RADS include the absence of pastma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to several carcinogeness and the product of the pattern on lung function tests, moderate to several carcinogeness and the opportunities of the product of	nificance of the contact allergen is not contact with it are equally important.  eye, mucous membranes, and airway ays diseases.  sum manufacturing plant found restrict the protective on quartz toxicity in animutance has been classified by the IARC (and the protective on quartz toxicity in animutance has been classified by the IARC (and the protective on quartz toxicity in animutance has been classified by the IARC (and the protective on quartz and cristobalite. Crystalline silication occoniosis), cough, dyspnoea, liver ture the samples counted by light field technicate the protection of the protection occoniosis.  The protective on quartz toxicity in animutance has been classified by the IARC (and the IARC) and the IARC	er allergic skin reactions, e.g. contact urticaria, simply determined by its sensitisation potential: the s. A series of studies involving Gypsum industry tive defects on long-function tests in those who were all testing.  Eas Group 1: CARCINOGENIC TO HUMANS  ures to respirable (<5 um) crystalline silica as being idence from epidemiological studies of humans for s also known to cause silicosis, a non-cancerous lung nours.  siques).  It a chronic health problem. To be a hazard the all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main ic individual, with sudden onset of persistent ther criteria for diagnosis of RADS include a reversible		

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

Leaend

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

### **SECTION 12 Ecological information**

#### Toxicity

cicity	1					
	Endpoint	Test Duration (hr)	Species		Value	Source
MJS L25 Leveller	Not Available	Not Available	Not Available Not Available			Not Available
	Endpoint	Test Duration (hr)	Species	Species		Source
graded sand	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72	Algae or other aquatic plants >14m		>14mg/L	2
calcium carbonate	EC10	72	Algae or other aquatic plants		>14mg/L	2
	NOEC	72	Algae or other aquatic plants	Algae or other aquatic plants 14mg		2
	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		>100mg/L	2
calcium aluminate cement	EC50	48	Crustacea 5.4mg/L		5.4mg/L	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	Valu	ue	Source
	LC50	96	Fish	>1-9	970mg/L	2
calcium sulfate	EC50	72	Algae or other aquatic plants	>79mg/L		2
	EC98	720	Algae or other aquatic plants	=1872.000mg/L		1
	NOEC	24	Crustacea	<25	00.0mg/L	1
	Endpoint	Test Duration (hr)	Species		Value	Source
silica crystalline - quartz	Not Available	Not Available	Not Available		Not Available	Not Available
Legend:	V3.12 (QSAR	n 1. IUCLID Toxicity Data 2. Europe ECHA Regis ) - Aquatic Toxicity Data (Estimated) 4. US EPA, I (Japan) - Bioconcentration Data 7. METI (Japan)	Ecotox database - Aquatic Toxicity Data 5. E			

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.

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- 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.

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

#### Labels Required

Marine Pollutant	NO		
HAZCHEM	Not Applicable		

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 Regulatory information**

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

graded sand is found on the following	a regulatory lists
---------------------------------------	--------------------

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)
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

calcium carbonate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

portland cement is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

calcium aluminate cement is found on the following regulatory lists

silica crystalline - quartz is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

calcium sulfate is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

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

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

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC	Yes
Australia Non-Industrial Use	No (graded sand; calcium carbonate; portland cement; calcium aluminate cement; calcium sulfate; silica crystalline - quartz)
Canada - DSL	Yes
Canada - NDSL	No (graded sand; portland cement; calcium aluminate cement; calcium sulfate; silica crystalline - quartz)
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

22/09/2020

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Initial Date

22/09/2020

#### 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 BEI: Biological Exposure Index

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