

# **ARDEX X7**

# **ARDEX (Ardex Australia)**

Chemwatch: 5696-81 Version No: 3.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

#### Chemwatch Hazard Alert Code: 3

Issue Date: **26/08/2024**Print Date: **27/09/2024**L.GHS.AUS.EN.E

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

#### **Product Identifier**

Product name	ARDEX X7
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

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

Registered company name	ARDEX (Ardex Australia)
Address	2 Buda Way Kemps Creek NSW 2147 Australia
Telephone	1300 788 780
Fax	1300 780 102
Website	www.ardexaustralia.com
Email	technical.services@ardexaustralia.com

# 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.

Poisons Schedule	Not Applicable
Classification [1]	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Germ Cell Mutagenicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2
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)







Signal word

Danger

# Hazard statement(s)

` '	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

# 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+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

# 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
65997-15-1	30-60	portland cement
14808-60-7.	30-60	graded sand
14808-60-7	<0.1	silica crystalline - quartz
Legend:	Classified by Chemwatch; 2. Classification dra     Classification drawn from C&L * EU IOELVs ava	awn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4.

# **SECTION 4 First aid measures**

Description of first aid measur	es
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> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

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# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- ▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue. Alkalis continue to cause damage after exposure

INGESTION:

Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- Neutralising agents should never be given since exothermic heat reaction may compound injury.
- \* Catharsis and emesis are absolutely contra-indicated.
- \* Activated charcoal does not absorb alkali.
- \* Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

#### **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.

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
dvice for firefighters			
	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.		
Eiro Eighting	<ul><li>Use fire fighting procedures suitable for surrounding area.</li></ul>		
Fire Fighting	<ul><li>DO NOT approach containers suspected to be hot.</li></ul>		
	<ul> <li>Cool fire exposed containers with water spray from a protected location.</li> </ul>		
	If safe to do so, remove containers from path of fire.		
	<ul> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>		
	► Solid which exhibits difficult combustion or is difficult to ignite.		
	<ul> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture wit</li> </ul>		

# Fire/Explosion Hazard

- explosion. A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.
- ▶ Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this type.

Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an

- Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.
- ▶ Build-up of electrostatic charge may be prevented by bonding and grounding.

and any source of ignition, i.e. flame or spark, will cause fire or explosion.

- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion
- ▶ All movable parts coming in contact with this material should have a speed of less than 1-metre/sec.

Decomposition may produce toxic fumes of:

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

- Clean up waste regularly and abnormal 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.
   Vacuum up or sweep up. NOTE: Vacuum cleaner must be fitted with an exhaust micro filter (H-Class HEPA type) (consider explosionproof machines designed to be grounded during storage and use). H-Class HEPA filtered industrial vacuum cleaners should NOT be used on wet materials or surfaces.
- Dampen with water to prevent dusting before sweeping.
- ▶ Place in suitable containers for disposal

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 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. ▶ Prevent, by all means available, spillage from entering drains or water courses Consider evacuation (or protect in place) No smoking, naked lights or ignition sources. Increase ventilation. **Major Spills** Stop leak if safe to do so Water spray or fog may be used to disperse / absorb vapour. Contain or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services

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

### **SECTION 7 Handling and storage**

# Precautions for 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.
- ▶ DO NOT enter confined spaces until atmosphere has been checked.
- ▶ DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice

Establish good housekeeping practices.

- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
- Dorganic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)
- Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
- Safe handling
  - Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
  - Use continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in.(0.8 mm) thick can be sufficient to warrant immediate cleaning of the area.
  - Do not use air hoses for cleaning.
  - Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used.
  - Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of ignition
  - ▶ Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national quidance.
  - Do not empty directly into flammable solvents or in the presence of flammable vapors
  - The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags and plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers.
- In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.
- Store in original containers.
  - Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes
- Store away from incompatible materials and foodstuff containers
- Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

# For major quantities:

- ▶ Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
- Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities

# Conditions for safe storage, including any incompatibilities

Suitable container

Other information

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks

Storage incompatibility

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

# SECTION 8 Exposure controls / personal protection

# Control parameters

Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	portland cement	Portland cement	10	Not	Not	(a) This value is for inhalable dust containing

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
			mg/m3	Available	Available	no asbestos and < 1% crystalline silica.
Australia Exposure Standards	graded sand	Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	graded sand	Silica - Crystalline: Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline: Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	silica crystalline - quartz	Quartz (respirable dust)	0.05 mg/m3	Not Available	Not Available	Not Available

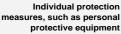
Ingredient	Original IDLH	Revised IDLH
portland cement	5,000 mg/m3	Not Available
graded sand	25 mg/m3 / 50 mg/m3	Not Available
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available

#### MATERIAL DATA

#### **Exposure controls**

#### Appropriate engineering controls

None under normal operating conditions.













- 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. [AS/NZS 1337.1, EN166 or national equivalent]
- 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.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

# Skin protection

Eye and face protection

See Hand protection below

# Hands/feet protection

# NOTE:

- Fig. 12 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. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374. AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.
- As defined in ASTM F-739-96 in any application, gloves are rated as:
- · Excellent when breakthrough time > 480 min · Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended

Neoprene rubber gloves

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#### Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Eye wash unit.

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.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne
- $\cdot$  Try to avoid creating dust conditions.

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both.

P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles Suitable for:

- Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.
- · Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
- · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties Powder; insoluble in water. **Appearance** Relative density (Water = 1) Physical state Divided Solid Not Available Partition coefficient n-octanol Not Available Not Available Odour / water Auto-ignition temperature Odour threshold Not Available Not Applicable (°C) Decomposition pH (as supplied) Not Applicable Not Available temperature (°C) Melting point / freezing point Not Available Viscosity (cSt) Not Applicable (°C) Initial boiling point and Molecular weight (g/mol) Not Applicable Not Applicable boiling range (°C) Flash point (°C) Not Applicable Taste Not Available **Evaporation rate** Not Available **Explosive properties** Not Available Flammability Oxidising properties Not Available Not Applicable Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Applicable Not Applicable mN/m) Lower Explosive Limit (%) Not Applicable Volatile Component (%vol) Not Available Vapour pressure (kPa) Not Applicable Gas group Not Available Solubility in water Immiscible pH as a solution (1%) Not Applicable Not Available VOC g/L Not Available Vapour density (Air = 1) Not Available Heat of Combustion (kJ/g) Not Available Ignition Distance (cm) Flame Duration (s) Flame Height (cm) Not Available Not Available **Enclosed Space Ignition Enclosed Space Ignition** Not Available Not Available Time Equivalent (s/m3) Deflagration Density (g/m3)

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#### **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

# Inhaled

Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.

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. Overexposure to respirable dust may produce wheezing, coughing and breathing difficulties leading to or symptomatic of impaired respiratory function.

#### Ingestion

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

# Skin Contact

Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.

The material may accentuate any pre-existing dermatitis condition

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.

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, puncture wounds 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

When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.

# Chronic

Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Strong evidence exists that the substance may cause irreversible but non-lethal mutagenic effects following a single exposure. Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive.

Substances than can cuase occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive.

Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.

Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests.

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.

Cement eczema may be due to chromium in feed stocks or contamination from materials of construction used in processing the cement.

Sensitisation to chromium may be the leading cause of nickel and cobalt sensitivity and the high alkalinity of cement is an important factor in

Repeated, prolonged severe inhalation exposure may cause pulmonary oedema and rarely, pulmonary fibrosis. Workers may also suffer from dust-induced bronchitis with chronic bronchitis reported in 17% of a group occupationally exposed to high dust levels. Respiratory symptoms and ventilatory function were studied in a group of 591 male Portland cement workers employed in four Taiwanese cement plants, with at least 5 years of exposure (1). This group had a significantly lowered mean forced vital capacity (FCV), forced expiratory volume at 1 s (FEV1) and forced expiratory flows after exhalation of 50% and 75% of the vital capacity (FEF50, FEF75). The data suggests that occupational exposure to Portland cement dust may lead to a higher incidence of chronic respiratory symptoms and a reduction of ventilatory capacity.

Chun-Yuh et al; Journal of Toxicology and Environmental Health 49: 581-588, 1996

Chemwatch: 5696-81 Version No: 3.1

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TOXICITY   IRRITATION   Not Available   Not				
portland cement    TOXICITY   IRRITATION   Not Available	ARDEV VZ	TOXICITY	IRRITATION	
TOXICITY IRRITATION  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> Not Available  TOXICITY IRRITATION  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> Not Available  TOXICITY IRRITATION  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> Not Available  TOXICITY IRRITATION  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> Not Available  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless others specified date extracted from RTECS - Register of Toxic Effect of chemical Substances in the Control of Toxic Infect of Committed Substances appears on the Control of Toxic Infect of Committed Substances and Exercised	ARDEX X/	Not Available	Not Available	
graded sand  TOXICITY IRRITATION  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> Not Available  TOXICITY IRRITATION  TOXICITY IRRITATION  TOXICITY IRRITATION  IRRITA		TOXICITY	IRRITATION	
Silica crystalline - quart   TOXICITY	portiand cement	Not Available	Not Available	
TOXICITY  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> TOXICITY  Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup> IRRITATION  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  The following information refers to contact allergens as a group and may not be specific to this product.  Cortact allergies quickly manifest themselves as contact excerns, more rarely as unfacin or Quincle's codema. The pathogenesis of cortact accerns involves a call-mediated (if ymphocytos) immune reaction of the delayed type. Other allergies shir reactions, e.g. contact or cortact excerns involves as call-mediated (if ymphocytos) immune reaction of the delayed type. Other allergies shir reactions, e.g. contact or cortact excerns involves as a cell-mediated (if ymphocytos) immune reaction of the delayed type. Other allergies shir reactions, e.g. contact or cortact excerns involves as a cell-mediated (if ymphocytos) immune reaction of the delayed type. Other allergies shir reactions, e.g. contact power of the shirt of the delay of the substance and the opportunities for contact with it are equally important in the distribution of the substance and the opportunities for contact with it are equally important in the involved interest in the product of the persons tested.  Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-allergic compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-allergic compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-allergic compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-allergic compound with the tack of minimal lymphocytic		TOXICITY	IRRITATION	
Legend:  1. Value obtained from Europe ECNA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless others specified date extracted from RTECS - Register of Toxic Effect of chemical Substances  The following information refers to contact allergens as a group and may not be specific to this product.  Contact electeria involves a cell-mediated (T ymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact unicaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitional unicaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitional potential with which feel winduring determined by its sensitional potential with which feel winduring contact with it are equally improvant. A weakly sensitising substance with stronger sensitising potential with which feel winduring contact with it are equally improvant. A weakly sensitising substance with stronger sensitising potential with which feel winduring contact with it are equally improvant. A weakly sensitising substance and the opportunities for contact with it are equally improvant. A weakly sensitising substance are noteworthy if they produce an allergic test reaction in more than 1% of the persons reactive with a sensitive of the persons are necessary of the province allergen to high levels of highly irritating condition known as reactive alreyed systemicion syndrome (RADS) which can occur after exposure to high levels of highly irritating condition known as reactive alreyed systemicion syndrome (RADS) which can occur after exposure to high levels of highly irritating and the lack of minimal prophopytic inflammation, without cosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversib	graded sand	Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup>	Not Available	
Legend:  1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherw specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  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 excerns, more rarely as urticaria or Quinck's eedema. The pathogenesis of contact eccrns involves a cell-mediated (T) ymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated minute reactions. The significance of the contact allergen is not simply determined by its sensitiastic potential: the distribution of the substance and the opportunities for contact with it are deadly important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come: contact. From a clinical point of view, substances are networthy; if they produce an allergic test reaction in more than 1% of the persons tested.  PORTLAND CEMENT  PORTLAND CEMENT  PORTLAND CEMENT  PORTLAND CEMENT  A stranger in the lack of minimal properties are not provided to the produce an allergic test reaction in more than 1% of the persons tested.  A stranger in the lack of minimal properties allergeness of the produce an allergic test reaction in more than 1% of the persons tested.  Washing a stranger of the properties and the lack of minimal properties.		тохісіту	IRRITATION	
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) tymphocytes) immune reaction of the delayed type. Other allergie skin reactions, e.g. contact urticaria, involves a acil-mediated (T) tymphocytes) immune reaction of the delayed type. Other allergie skin reactions, e.g. contact urticaria, involves a cell-mediated (T) tymphocytes) immune reaction of the delayed type. Other allergie skin reactions, e.g. contact urticaria, involves a cell-mediated (T) tymphocytes) immune reaction of the delayed type. Other allergie skin reactions, e.g. contact urticaria, involves a cell-mediated (T) tymphocytes) immune reaction of the delayed type. Other allergie skin reactions, e.g. contact urticaria, involves a cell-mediated (T) tymphocytes) information or contact. From a clinical point of view, substances are networthy if they produce an allergic test reaction in more than 1% of the persons contact. From a clinical point of view, substances are networthy if they produce an allergic test reaction in more than 1% of the persons contact. From a clinical point of view, substances are networthy if they produce an allergic test reaction in more than 1% of the persons contact with a contact allergen than one with strong reactive and the lease of minimal tymphocytes inflammation synthetic products and survey in the present of deposition of persistent asthma-like symptoms within minitus to hours of a documented exposure to the irritating substance. On the other hand, industrial brone is a disorder that occurs as a result of exposure of each of the persons of the irritating substance. On the other hand, industrial brone is a disorder that occurs as a result of exposure of each of the concentrations of pressure in the irritating substance. On the other hand, industrial brone is a disorder that occurs are suffici	silica crystalline - quartz	Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup>	Not Available	
Contact allergies quickly manifest themselves as contact ezema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact etezema involves a cell-mediated ff impuno cytes) 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 sensitisatic potential: the distribution of the substance and the opportunities for contact this are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons existed.  Asthma-like symptoms may continue for months or even years after exposure to the intrinance to the date of a non-allergic compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden or persistent asthma-like symptoms within minutes to hours of a documented exposure to the intrinant. 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. RADG castamia of contacting an irritating inhalation is an infrequent disorder with rates related to the concentrations of aduration of exposure to the irritating substance. On the other hand, industrial bronc as a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.   WARNING: For inhalation exposure <u>ONLY</u> : This substance has been classified occupational exposures to respirable (~5 um) crystalline silica	Legend:			btained from manufacturer's SDS. Unless otherw
The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica a being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.  * Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE: the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.  PORTLAND CEMENT & RADED SAND  No significant acute toxicological data identified in literature search.  Acute Toxicity  Skin Irritation/Corrosion  Reproductivity  Strious Eye Damage/Irritation  Respiratory or Skin	PORTLAND CEMENT	Contact allergies quickly manifest themselves as a contact eczema involves a cell-mediated (T lymphurticaria, involve antibody-mediated immune reactipotential: the distribution of the substance and the which is widely distributed can be a more important contact. From a clinical point of view, substances a tested.  Asthma-like symptoms may continue for months or condition known as reactive airways dysfunction sy compound. Main criteria for diagnosing RADS include presistent asthma-like symptoms within minutes include a reversible airflow pattern on lung functior and the lack of minimal lymphocytic inflammation, disorder with rates related to the concentration of a is a disorder that occurs as a result of exposure due.	contact eczema, more rarely as urticar cocytes) immune reaction of the delays ions. The significance of the contact a opportunities for contact with it are equit allergen than one with stronger sensare noteworthy if they produce an aller reven years after exposure to the mai yndrome (RADS) which can occur aftended the absence of previous airways on the tests, moderate to severe bronchial I without eosinophilia. RADS (or asthmand duration of exposure to the irritating to thigh concentrations of irritating since the severe of the service of t	ia or Quincke's oedema. The pathogenesis of d type. Other allergic skin reactions, e.g. contact llergen is not simply determined by its sensitisatio qually important. A weakly sensitising substance sitising potential with which few individuals come in rgic test reaction in more than 1% of the persons terial ends. This may be due to a non-allergic er exposure to high levels of highly irritating disease in a non-atopic individual, with sudden on to the irritant. Other criteria for diagnosis of RADS hyperreactivity on methacholine challenge testing a) following an irritating inhalation is an infrequent g substance. On the other hand, industrial bronch ubstance (often particles) and is completely
Acute Toxicity X Carcinogenicity X Skin Irritation/Corrosion Reproductivity X Serious Eye Damage/Irritation Respiratory or Skin		The International Agency for Research on Cancer being carcinogenic to humans. This classification humans for the carcinogenicity of inhaled silica in t non-cancerous lung disease.  Intermittent exposure produces; focal fibrosis, (pne * Millions of particles per cubic foot (based on impi NOTE: the physical nature of quartz in the produc	(IARC) has classified occupational ex is based on what IARC considered su the forms of quartz and cristobalite. Cr eumoconiosis), cough, dyspnoea, liver nger samples counted by light field te- t determines whether it is likely to pres	posures to <b>respirable</b> (<5 um) crystalline silica as ifficient evidence from epidemiological studies of rystalline silica is also known to cause silicosis, a r tumours.
Skin Irritation/Corrosion  Serious Eye Damage/Irritation  Respiratory or Skin  STOT - Repeated Exposure		No significant acute toxicological data identified in	literature search.	
Serious Eye Damage/Irritation Respiratory or Skin STOT - Repeated Exposure	Acute Toxicity	×	Carcinogenicity	×
Damage/Irritation  Respiratory or Skin  STOT - Single Exposure	Skin Irritation/Corrosion	✓	Reproductivity	×
Respiratory or Skin		<b>~</b>	STOT - Single Exposure	•
				1

Legend:

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

Aspiration Hazard X

# **SECTION 12 Ecological information**

Mutagenicity

# Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
ARDEX X7	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
graded sand	Not Available	Not Available	Not Available	Not Available	Not Available
silica crystalline - quartz	Endpoint	Test Duration (hr)	Species	Value	Source

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Not Not Not Not Available Not Available Available Available Available Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

# Persistence and degradability

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

#### Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

# Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

# **SECTION 13 Disposal considerations**

# Waste treatment methods

Product / Packaging disposal

- ▶ 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 Authority for disposal.
- Bury or incinerate residue at an approved site.
- 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

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

Not Applicable

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

Product name	Group
portland cement	Not Available
graded sand	Not Available
silica crystalline - quartz	Not Available

# 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type		
portland cement	Not Available		
graded sand	Not Available		
silica crystalline - quartz	Not Available		

# **SECTION 15 Regulatory information**

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

# portland cement is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

# graded sand is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

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

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

#### silica crystalline - quartz is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Model Work Health and Safety Regulations - Hazardous chemicals (other than lead) requiring health monitoring

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 - Group 1: Carcinogenic to humans

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

# **Additional Regulatory Information**

Not Applicable

# **National Inventory Status**

National Inventory Status				
National Inventory	Status			
Australia - AIIC / Australia Non- Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (portland cement; graded sand; 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)			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	Yes			
Vietnam - NCI	Yes			
Russia - FBEPH	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. These ingredients may be exempt or will require registration.			

# SECTION 16 Other information

Revision Date	26/08/2024
Initial Date	23/08/2024

# **SDS Version Summary**

Version	Date of Update	Sections Updated
2.1	23/08/2024	Hazards identification - Classification
3.1	26/08/2024	Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, First Aid measures - First Aid (skin), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (Respirator), Exposure controls / personal protection - Personal Protection (eye)

# 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 Limit₀
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- 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
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ► DSL: Domestic Substances List

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- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ► ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
   ENCS: Existing and New Chemical Substances Inventory
   KECI: Korea Existing Chemicals Inventory
   NZIoC: New Zealand Inventory of Chemicals

- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ► TCSI: Taiwan Chemical Substance Inventory
  ► INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
   FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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