

# Reveal

## Cemix (a part of Ardex NZ)

Chemwatch Hazard Alert Code: 2

Chemwatch: 81-8836
Version No: 4.1
Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 20/08/2021 Print Date: 14/08/2024 S.GHS.NZL.EN.E

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

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Product name	Cemix Reveal
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses Surface retarder for concrete.

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

Registered company name	Cemix (a part of Ardex NZ)	
Address	19 Alfred Street Onehunga Auckland 1061 New Zealand	
Telephone	+64 9 636 1000	
Fax	+64 9 636 0000	
Website	www.cemix.co.nz	
Email	info@cemix.co.nz	

## Emergency telephone number

Association / Organisation	Cemix (a part of Ardex NZ)	
Emergency telephone numbers	0800 ASK CEMIX	
Other emergency telephone numbers	Not Available	

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex		
Determined by Chemwatch using GHS/HSNO criteria	6.1D (oral), 6.3A, 6.4A		

## Label elements

Hazard pictogram(s)



Signal word

Warning

## Hazard statement(s)

H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

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#### Precautionary statement(s) Prevention

P264 Wash all exposed external body areas thoroughly after handling.	
P270 Do not eat, drink or smoke when using this product.	
P280 Wear protective gloves, protective clothing, eye protection and face protection.	

#### 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.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P302+P352 IF ON SKIN: Wash with plenty of water.			
P330	P330 Rinse mouth.		
P332+P313 If skin irritation occurs: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.		

#### Precautionary statement(s) Storage

Not Applicable

#### 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	
527-07-1	10-15	sodium gluconate	
9004-32-4	0.1-0.2	sodium carboxymethylcellulose	
Not Available	<0.01	preservative	
7732-18-5	85-90	<u>water</u>	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

## **SECTION 4 First aid measures**

## Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> <li>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</li> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li> </ul>

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

## BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.

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- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Treat symptomatically.

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

#### Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

- ▶ foam.
- dry chemical powder.
- carbon dioxide.

#### 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> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> </ul> Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.		

## **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>			
Major Spills	Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Neutralise/decontaminate residue (see Section 13 for specific agent).  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.			

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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.
- 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.
- DO NOT allow clothing wet with material to stay in contact with skin

## Other information

Safe handling

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- 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.

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

## Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.
- Storage incompatibility
- Avoid reaction with oxidising agents

#### SECTION 8 Exposure controls / personal protection

#### **Control parameters**

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

## **Emergency Limits**

Ingredient	TEEL-1	TEEL-2		TEEL-3
Cemix Reveal	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
sodium gluconate	Not Available		Not Available	
sodium carboxymethylcellulose	Not Available		Not Available	
water	Not Available		Not Available	

## **Exposure controls**

## Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50- 100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100- 200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity

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> 3: Intermittent, low production. 3: High production, heavy use 4: Large hood or large air mass in motion 4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

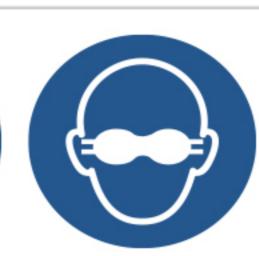
#### Individual protection measures, such as personal protective equipment











## Eye and face protection

Safety glasses with side shields.

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- 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

#### See Hand protection below

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

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

## Hands/feet protection

use.

As defined in ASTM F-739-96 in any application, gloves are rated as:

Contaminated gloves should be replaced.

- Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- Fair when breakthrough time < 20 min</li> 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.

## Body protection

See Other protection below

- Overalls.
- Other protection
- P.V.C apron. Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

## Recommended material(s)

## **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

## "Forsberg Clothing Performance Index".

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

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Material	СРІ
BUTYL	Α
NEOPRENE	Α
VITON	Α
NATURAL RUBBER	С
PVA	С

## Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1

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- \* 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.

#### **Ansell Glove Selection**

Glove — In order of recommendation
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-735
AlphaTec® 79-700
MICROFLEX® 93-244
MICROFLEX® 93-260
MICROFLEX® 93-843
MICROFLEX® 93-856
MICROFLEX® 93-853
TouchNTuff® 92-575

The suggested gloves for use should be confirmed with the glove supplier.

up to 50	5000	Airline *	-
up to 100	5000	_	A-2
up to 100	10000	_	A-3
100+			Airline**

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- \* Continuous Flow \*\* Continuous-flow or positive pressure demand 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)
- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### SECTION 9 Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Red liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	~1.04-1.08
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	8-8.5	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
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

Inhaled

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

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Inits material can acuse inflammation of the skin on contact in some persons.	Ingestion	Accidental ingestion of the material may be harmful; ani produce serious damage to the health of the individual.	mal experiments indicate that ingestion of less than 150 gram may be fatal or may
Chronic   Long-term exposure to the product is not thought to produce chronic effects advises to the health (as classified by EC Directives using animal models); nevertheless exposure by all rodles should be minimised as a matter of course.    TOXICITY	Skin Contact	The material may accentuate any pre-existing dermatities.  Open cuts, abraded or irritated skin should not be expose  Entry into the blood-stream, through, for example, cuts,	s condition sed to this material abrasions or lesions, may produce systemic injury with harmful effects. Examine the
TOXICITY IRRITATION Sodium gluconate  TOXICITY IRRITATION Not Available  TOXICITY IRRITATION Not Available  TOXICITY IRRITATION TOXICITY IRRITATION TOXICITY IRRITATION TOXICITY IRRITATION TOXICITY IRRITATION TOXICITY IRRITATION  Sodium acarboxymethyleellulose  TOXICITY IRRITATION  Demail (rabbit) LD50 > 20000 mg/kg <sup>[2]</sup> Not Available  Inhalation (Rai) LC50 > 5.8 mg/Lsh <sup>[2]</sup> Toxic (Gunea) LD50; 16000 mg/kg <sup>[2]</sup> Not Available  TOXICITY IRRITATION  Demail (rabbit) LD50 > 20000 mg/kg <sup>[2]</sup> Not Available  TOXICITY IRRITATION  TOXICITY	Eye	This material can cause eye irritation and damage in so	me persons.
Not Available   Not Available   Not Available   Not Available	Chronic		$\cdot$
Not Available   Not Available   Not Available   Not Available		TOYICITY	IDDITATION
TOXICITY   IRRITATION	Cemix Reveal		
TOXICITY  Demai (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Inhalation (Rat) LD50: >5.8 mg/L4h <sup>[2]</sup> Oral (Gunea) LD50, 18000 mg/kg <sup>[2]</sup> Not Available  Not Available  TOXICITY  Inhalation (Rat) LD50: >5.8 mg/L4h <sup>[2]</sup> Oral (Gunea) LD50, 18000 mg/kg <sup>[2]</sup> Not Available  TOXICITY  IRRITATION  Toral (Rat) LD50: >90000 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 otherwise specified data extracted from RTECS - Register of Towe Effect of chemical Substances  * PMP MSDS  Torg (Juconic acid and its sails: Gluconic acid and its sails: Gluconic acid and its sails: Gluconic acid and its mineral sails treely dissociate to the gluconate anion and the respective cations. Glucon-delta-lactone (GDL), the 15-inner ester of gluconic acid, is formed from the free acid by the removal of vator. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its sodium, calcium and potassium saits can be considered as a category, with all members sharing the same representative moles, the gluconate anion.  Acute toxicity: Gluconic acid and its derivatives are naturally occurring substances. In mammalian organisms both D-gluconic acid and its 1-3-lactone are important intermediates in the carbohydrate metabolism. Gluconate is a metabolite of glucose oxidation. The daily production of gluconate from endogenous sources is about 450 mg/kg for a 60 kg person. A significant portion (60-85%) of parenterally administered gluconate is exceeded unchanged in the urine.  The LD50 calculated after oral administration (gavage) of potassium gluconate on Wistar reat is 6060 mg/kg bw. These compounds are neither irritant to the eye or the skin nor show sensitizing properties.  Repeat dose toxicity: None of the repeated dose toxicity studies of any duration (4 weeks, 6 months, or 24 months) showed any significant toxicological effects of gluconates. Pot or males and 2200 mg/kg bw for leaves and 2000 mg/kg bw or bid dose		TOXICITY	IRRITATION
Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup> Not Available  Inhalation (Rat) LC50: >5.8 mg/L4h <sup>[2]</sup> Oral (Guinea) LD50; 16000 mg/kg <sup>[2]</sup> TOXICITY IRRITATION  TOXICITY IRRITATION  Oral (Rat) LD50: >900000 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 otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  **PMP MSDS** for pluconic acid and its salts: Opportunity of the substances of the pluconate acid on the respective cations, Glucono-delta-lactone (GDL), the 1,5-inner ester of gluconic acid, is formed from the five acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its material salts freely dissociate to the gluconate anion. Acute toxicity: Gluconic acid and its formed from the five acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its formed from the five acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its formed from the five acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its formed from the five acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its 15-lactorie are important intermediates in the carbonytrate metabolism. Gluconate is a metabolite of gluconic acid and its 15-lactories are important intermediates in the carbonytrate metabolism. Gluconate is a metabolite of gluconic acid and its 15-lactories are representative or gluconic acid and its 15-lactories are representative are acid and its 15-lactories are representative are representative are acid gluconic acid and its 15-lactories are representative are representative are acid gluconic acid and its 15-lacto	sodium gluconate	Oral (Rat) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available
Inhalation (Rat) LC50: >5.8 mg/Ldh <sup>[2]</sup> Oral (Guinea) LD50; 16000 mg/kg <sup>[2]</sup> TOXICITY  IRRITATION  Not Available  **TOXICITY  IRRITATION  **TOXICITY		TOXICITY	IRRITATION
Inhalation (Rat) LC50: >5.8 mg/L4n <sup>[2]</sup> Oral (Guinea) LD50; 16000 mg/kg <sup>[2]</sup> **TOXICITY***  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  **PMP MSDS** for gluconic acid and its salts: Gluconic acid and its mineral salts freely dissociate to the gluconate anion and the respective cations, Glucono-delta-lactone (GDL), the 1,5-inner ester of gluconic acid, is formed from the free acid by the removal of vater, on the basis of these spontaneous chemical rearrangements, glucono-delta-lactone gluconic acid and its sodium, nacioum and polassium salts can be considered as a category, with all members sharing the same representative mieley, the gluconate anion.  Acute toxicity: Gluconic acid and its deministratives are naturally occurring substances. In mammalian organisms both D-gluconic acid and its 1,5-lactone are important intermediates in the carbohydrate metabolism. Gluconate is a metabolite of glucose oxidation. The daily production of gluconate from endopenous sources is about 450 mg/kg for a 60 kg person. A significant portion (60-85%) of parenterally administered gluconate is excreted unchanged in the urine.  The LDSO calculated after oral administration (gavage) of potassium gluconate on Wistar rats is 6060 mg/kg by administered gluconate is excreted unchanged in the urine.  Repeat does doxicity: None of the repeated dose toxicity studies of any duration (4 weeks, 6 months, or 24 months) showed any significant toxicological effects of gluconates. Potential side effects were attributed to high doses of cation intake, evidenced by results from assays designed for the gluconate and dose toxicity is valued so any developmental toxicity: The available in vitro and in vivo mutaganicity. The NOAEL oddium gluconate determined from the 28 days studies or rats was equal to 1000 mg/kg by for reales and 200	codium	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available
water    TOXICITY		Inhalation (Rat) LC50: >5.8 mg/L4h <sup>[2]</sup>	
Coral (Rat) LD50: >90000 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 otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances  *PMP MSDS* for gluconic acid and its mineral salts freely dissociate to the gluconate anion and the respective cations. Glucono-delta-lactone (GDL), the 1,5-inner ester of gluconic acid, is formed from the free acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its odicium and potassum salts can be considered as a category, with all members sharing the same representative moiety, the gluconate anion.  Acute toxicity: Gluconic acid and its derivatives are naturally occurring substances. In mammalian organisms both D-gluconic acid and its 1.5-lactone are important intermediates in the carbohydrate metabolism. Gluconate is a metabolite of glucose oxidation. The daily production of gluconate from endogenous sources is about 450 mg/kg for a 60 kg person. A significant portion (60-85%) of parenterally administered gluconate is excreted unchanged in the urine.  The LD50 calculated after oral administration (gavage) of potassium gluconate on Wistar rats is 6060 mg/kg bw.  These compounds are neither irritant to the eye or the skin nor show sensitizing properties.  Repeat dose toxicity: None of the repeated dose toxicity studies of any duration (4 weeks, 6 months, or 24 months) showed any significant toxicological effects of gluconates. Potential side effects were attributed to high doses of cation intake, evidenced by results from assays designed for the gluconate anion enfect specifically. The NOAEL of sodium gluconate determined from the 28 days studies or arts was equal to 1000 mg/kg bw for males and 2000			
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  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  1. PMP MSDS for gluconic acid and its salts: Gluconic acid and its salts freely dissociate to the gluconate anion and the respective cations. Glucono-delta-lactone (GDL), the 1,5-inner ester of gluconic acid, is formed from the free acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its sodium, calcium and potassium salts can be considered as a category, with all members sharing the same representative molety, the gluconate arion.  Acute toxicity: Gluconic acid and its derivatives are naturally occurring substances. In mammalian organisms both D-gluconic acid and its 1,5-lactone are important intermediates in the carbohydrate marking for a 60 kg person. A significant portion (GP-85%) of parenterally administered gluconate is excreted unchanged in the urine.  The LD50 calculated after oral administration (gavage) of potassium gluconate on Wistar rats is 6060 mg/kg bw. These compounds are neither irritant to the eye or the skin nor show sensitizing properties.  Repeat dose toxicity: None of the repeated dose toxicity studies of variations of the gluconate anion effect specifically. The AVAEL of sodium gluconate determined from the 28 days studies or rats was equal to 1000 mg/kg bw for males and 2000 mg/kg bw for females.  Genotoxicity: The available in vitro and in vivo mutagenicity data with glucono-delta-lactone, sodium or calcium gluconate were negative.  Neoplastic by RTECS criteria  While thought to be uncommon, case reports of severe reactions to carboxymethylicellulose exist. In one suc	<u>.</u>	TOXICITY	IRRITATION
**PMP MSDS for gluconic acid and its salts: Gluconic acid and its mineral salts freely dissociate to the gluconate anion and the respective cations. Glucono-delta-lactone (GDL), the 1,5-inner ester of gluconic acid, is formed from the free acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its sodium, calcium and potassium salts can be considered as a category, with all members sharing the same representative moiety, the gluconate anion.  Acute toxicity: Gluconic acid and its derivatives are naturally courring substances. In mammalian organisms both D-gluconic acid and its 1,5-lactone are important intermediates in the carbohydrate metabolism. Gluconate is a metabolite of glucose oxidation. The daily production of gluconate from endogenous sources is about 450 mg/kg for a 60 kg person. A significant portion (60-85%) of parenterally administered gluconate is excreted unchanged in the urine.  The LD50 calculated after oral administration (gavage) of potassium gluconate on Wistar rats is 6060 mg/kg bw.  These compounds are neither intrant to the eye or the skin nor show sensitizing properties.  Repeat dose toxicity: None of the repeated dose toxicity studies of any duration (4 weeks, 6 months, or 24 months) showed any significant toxicological effects of gluconates. Potential side effects were attributed to high doses of cation intake, evidenced by results from assays designed for the gluconate anion effect specifically. The NOAEL of sodium gluconate determined from the 28 days studies or rats was equal to 1000 mg/kg bw for remales and 2000 mg/kg bw for females for any of the gluconates of the category.  Reproductive and developmental toxicity: steating requirements regarding reproductive origins in repeat dose studies on sodium gluconate and with developmental toxicity studies on gluconate and with developmental toxicity studies on gluconate and with developmental foxicity studies on gluconate and with developmental foxicity studies on	water	Oral (Rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available
for gluconic acid and its salts: Gluconic acid and its mineral salts freely dissociate to the gluconate anion and the respective cations. Glucono-delta-lactone (GDL), the 1,5-inner ester of gluconic acid, is formed from the free acid by the removal of water. On the basis of these spontaneous chemical rearrangements, glucono-delta-lactone, gluconic acid and its sodium, calcium and potassium salts can be considered as a category, with all members sharing the same representative moiety, the gluconate anion.  Acute toxicity: Gluconic acid and its derivatives are naturally occurring substances. In mammalian organisms both D-gluconic acid and its 1,5-lactone are important intermediates in the carbohydrate metabolism. Gluconate is a metabolite of glucose oxidation. The daily production of gluconate from endogenous sources is about 450 mg/kg for a 60 kg person. A significant portion (60-85%) of parenterally administered gluconate is excreted unchanged in the urine.  The LD50 calculated after oral administration (gavage) of potassium gluconate on Wistar rats is 6060 mg/kg bw. These compounds are neither irritant to the eye or the skin nor show sensitizing properties.  Repeat dose toxicity: None of the repeated dose toxicity studies of any duration (4 weeks, 6 months, or 24 months) showed any significant toxicological effects of gluconates. Potential side effects were attributed to high doses of cation intake, evidenced by results from assays designed for the gluconate anion effect specifically. The NOAEL of sodium gluconate determined from the 28 days studies or rats was equal to 1000 mg/kg bw for males and 2000 mg/kg bw for females.  Genotoxicity: The available in vitro and in vivo mutagenicity data with glucono-delta-lactone, sodium or calcium gluconate were negative No carcinogenicity studies, and no inhalation toxicity data were available for any of the gluconates of the category.  Reproductive organs in repeat dose studies on sodium gluconate and with developmental toxicity studies on gluconate and with development	Legend:		
SODIUM CARBOXYMETHYLCELLULOSE  While thought to be uncommon, case reports of severe reactions to carboxymethylcellulose exist. In one such instance, a woman was known to experience anaphylaxis following exposure. Skin testing is believed to be a useful diagnostic tool for this purpose. Effects on inflammation, microbiota-related metabolic syndrome, and colitis are a subject of research Carboxymethyl cellulose has been found to cause inflammation of the gut, altering microbiota, and was found to be a triggering factor of inflammatory bowel diseases such as ulcerative colitis and Crohn's disease	SODIUM GLUCONATE	for gluconic acid and its salts: Gluconic acid and its mineral salts freely dissociate to 1,5-inner ester of gluconic acid, is formed from the free rearrangements, glucono-delta-lactone, gluconic acid all members sharing the same representative moiety, Acute toxicity: Gluconic acid and its derivatives are its 1,5-lactone are important intermediates in the carb production of gluconate from endogenous sources is administered gluconate is excreted unchanged in the The LD50 calculated after oral administration (gavage These compounds are neither irritant to the eye or the Repeat dose toxicity: None of the repeated dose toxignificant toxicological effects of gluconates. Potential from assays designed for the gluconate anion effect or ats was equal to 1000 mg/kg bw for males and 2000 Genotoxicity: The available in vitro and in vivo mutage No carcinogenicity studies, and no inhalation toxicity or Reproductive and developmental toxicity: Testing reproductive organs in repeat dose studies on sodium changes were observed on the reproductive organs in	the acid by the removal of water. On the basis of these spontaneous chemical and its sodium, calcium and potassium salts can be considered as a category, with the gluconate anion.  Inaturally occurring substances. In mammalian organisms both D-gluconic acid and onlydrate metabolism. Gluconate is a metabolite of glucose oxidation. The daily about 450 mg/kg for a 60 kg person. A significant portion (60-85%) of parenterally urine.  It is in properties and the properties of properties of any duration (4 weeks, 6 months, or 24 months) showed any all side effects were attributed to high doses of cation intake, evidenced by results specifically. The NOAEL of sodium gluconate determined from the 28 days studies on mg/kg bw for females. Genicity data with glucono-delta-lactone, sodium or calcium gluconate were negative. data were available for any of the gluconates of the category. The requirements regarding reproductive toxicity were satisfied with histopathology of the in gluconate and with developmental toxicity studies on glucono-delta-lactone. No in 28 days oral studies with sodium gluconate (dosage up to 4400 mg/kg bw) and
	SODIUM CARBOXYMETHYLCELLULOSE	While thought to be uncommon, case reports of seven known to experience anaphylaxis following exposure. Effects on inflammation, microbiota-related metabolic found to cause inflammation of the gut, altering micro	Skin testing is believed to be a useful diagnostic tool for this purpose. syndrome, and colitis are a subject of research Carboxymethyl cellulose has been
TENTE IN COMMON AND AND AND AND AND AND AND AND AND AN		as alociative collis and Olollis disease	

Acute Toxicity		Carcinogenicity	×
Skin Irritation/Corrosion		Reproductivity	×
Serious Eye Damage/Irritation		STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

— Data either not available or does not fill the criteria for classification

— Data available to make classification

## SECTION 12 Ecological information

#### Toxicity **Endpoint** Test Duration (hr) Species Value Source Cemix Reveal Not Not Not Not Available Not Available Available Available Available sodium gluconate **Endpoint** Test Duration (hr) Source Species Value

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**Cemix Reveal** 

	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
sodium	EC50	48h	Crustacea	46.04- 165.37mg/l	4
carboxymethylcellulose	LC50	96h	Fish	>2000mg/L	4
	EC50(ECx)	48h	Crustacea	46.04- 165.37mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa		HA Registered Substances - Ecotoxicologic Aquatic Hazard Assessment Data 6. NITE (		

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

#### Mobility in soil

Version No: 4.1

Ingredient	Mobility
	No Data available for all ingredients

#### **SECTION 13 Disposal considerations**

## Waste treatment methods

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

## Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- Where possible retain label warnings and SDS and observe all notices pertaining to the product.

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

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

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

## Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- 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.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

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

## **Disposal Requirements**

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

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

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

## **SECTION 14 Transport information**

## Labels Required

Marine Pollutant
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Version No: 4.1

**HAZCHEM** 

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

Not Applicable

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
sodium gluconate	Not Available
sodium carboxymethylcellulose	Not Available
water	Not Available

**Cemix Reveal** 

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

Product name	Ship Type
sodium gluconate	Not Available
sodium carboxymethylcellulose	Not Available
water	Not Available

#### SECTION 15 Regulatory information

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

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

HSR Number	Group Standard	
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

#### sodium gluconate is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

## sodium carboxymethylcellulose is found on the following regulatory lists

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

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

New Zealand Inventory of Chemicals (NZIoC)

## water is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

## Additional Regulatory Information

Not Applicable

## **Hazardous Substance Location**

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

Hazard Class	Quantities
Not Applicable	Not Applicable

## **Certified Handler**

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

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

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

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

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

## Tracking Requirements

Not Applicable

## **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium gluconate; sodium carboxymethylcellulose; water)

Issue Date: 20/08/2021

Version No: 4.1 **Cemix Reveal** 

National Inventory	Status	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (sodium carboxymethylcellulose)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
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	20/08/2021
Initial Date	22/06/2017

#### SDS Version Summary

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1	20/08/2021	Classification change due to full database hazard calculation/update.

#### 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
- 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
- AllC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- 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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TEL (+61 3) 9572 4700.