



. Identification of Substance & Company

Product
Product name
Other names
Product code
HSNO approval
Approval description
UN number
DG class
Packaging group
Hazchem code
Uses
Company Details
Company
Address

MP & P MORTAR NA MP & P MORTAR HSR002545 Construction Products (Toxic [6.7A]) Group Standard 2017 NA NA NA NA NA Waterproofing and protection of concrete.

Demden Limited

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Emergency Telephone Number: 0800-764 766

2. Hazard Identification

Approval

Telephone

Website

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002545, Construction Products (Toxic [6.7A]) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes Hazard Statement	
6.3A H315 - Causes skin irritation.	
8.3A H318 - Causes serious eye damage.	
6.7A H350 - May cause cancer	
6.9A H372 - Causes damage to organs through prolonged or repeated exposure).
9.1D H402Harmful to aquatic life.	





Other Classifications

Notes:

This product contains cement, which considered irritating to the skin under the classification system; however, there is a possibility of burns if wet cement or cement mixture is left in contact with the skin for a prolonged time. Cement and sand may contain crystalline silica (as quartz). 6.7A and 6.9A apply if quartz silica is present as a fine respirable dust.

Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dusts.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

Page 1 of 8 September 2019 P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing.

P281 - Use personal protective equipment as required.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P332+P313 - If skin irritation occurs: Get medical advice/ attention.

P362 - Take off contaminated clothing and wash before re-use.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE or doctor/physician.

P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

LIMITED

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (% w/w)
Portland cement	65997-15-1	30 - 60
Alkaline Earth Compound	1317-65-3	10 - <30
Silica Sand (graded)	14808-60-7	30 - 60
Calcium Aluminates	Mixture	<10%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

If medical advice is needed, have t attention.	his SDS, product container or label at hand. If exposed or concerned: Get medical advice/
Recommended first aid facilities	Ready access to running water is required. Accessible eyewash is recommended.
Exposure	
Swallowed	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Contact a doctor if you feel unwell.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. Get medical advice.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Get medical attention.
Inhaled	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor. If experiencing respiratory symptoms: Immediately call a POISON CENTER or doctor/physician.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: Suitable extinguishing substances:	There are no specific risks for fire/explosion for this chemical. It is non-combustible. Not applicable.
Unsuitable extinguishing substances:	Unknown.
Products of combustion:	Product does not burn. Dust may form irritating atmosphere. Product will react exothermically with water. Contaminated water wil be strongly alkaline. Product may decompose in a fire and produce toxic or corrosive fumes.
Protective equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	NA

demden

LIMITED

6. Accidental Release Measures			
Containment	If greater than 1000kg is stored, secondary containment and emergency plans to manage		
Containment	any potential spills must be in place.		
Emergency procedures	In the event of large spillage (>100kg) of the solid or concentrated aqueous solution alert		
	the fire brigade to location and give brief description of hazard.		
	Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of		
	any unprotected personnel. Contain spill. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses.		
Clean-up method	Collect product avoiding any dust formation, and seal in properly labelled containers or		
	drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.		
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage.		
	Recycle containers wherever possible. This material may be suitable for approved		
Dressutions	landfill. Dispose of only in accord with all regulations.		
Precautions	The dust may form irritating atmosphere. Contaminated water will be strongly alkaline. Do not allow contaminated water to enter the environment.		
	Wear protective equipment to prevent skin and eye contamination and the inhalation of		
	dust. Work up wind or increase ventilation.		
	7 Storage & Handling		
	7. Storage & Handling		
Storage	Avoid storage of harmful substances with food. Store out of reach of children.		
5	Containers should be kept closed in order to minimise contamination. Keep in a cool, dry		
	place. Avoid contact with incompatible substances as listed in Section 10.		
Handling	Keep exposure to a minimum, and minimise the quantities kept in work areas. Minimise		
	dust generation and accummulation. See section 8 with regard to personal protective		
	equipment requirements. Avoid skin and eye contact and inhalation of dust.		

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

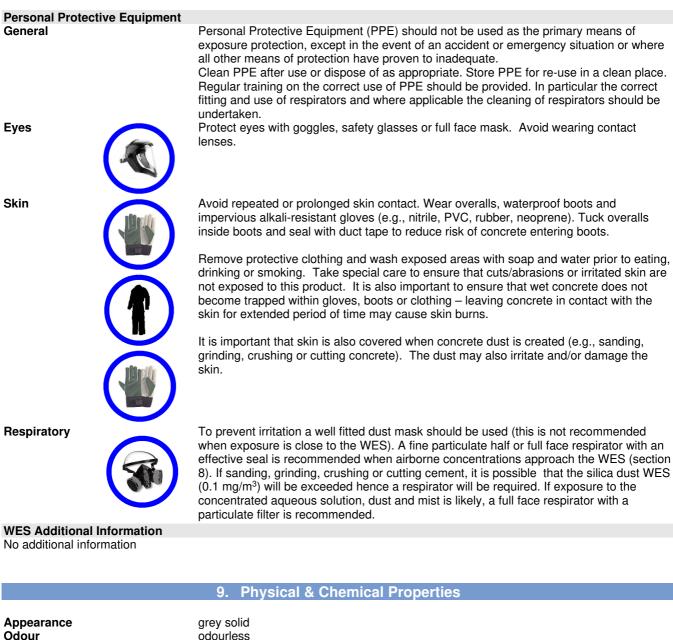
NZ Workplace	Ingredient	WES-TWA	WES-STEL
Exposure	Portland cement	10mg/m ³	Data unavailable
Standards	Alkaline Earth Compound	10mg/m ³	Data unavailable
	Silica Sand (graded) - Quartz	0.1mg/m ³ (Respirable dust)	Data unavailable
	Calcium Aluminates	Data unavailable*	Data unavailable
	* Calcium Aluminates may contain some Calcium Sulphate which has a WES-TWA of 10mg/m ³ .		

NOTE: WorkSafe considers its current WES-TWA of 0.1 mg/m³ for silica-crystalline (respirable dust) to be inadequate to protect workers exposed in the workplace, based on current knowledge. It is proposed that WorkSafe adopt WES-TWA for silica-crystalline of 0.05 mg/m³ (respirable fraction).

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.





Odour pH Vapour pressure Viscocity Boiling point Volatile materials Freezing / melting point Solubility Specific gravity / density Flash point Danger of explosion Auto-ignition temperature Upper and lower flammable limits Corrosiveness

10 to 13

no data

no data

>1200C

no data

no data

2.8 - 3.0

2.0g/L in water

not flammable

not explosive

not flammable

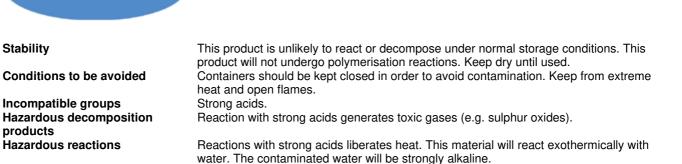
not flammable

Non corrosive to metals, wet product is alkaline and is corrosive to ocular tissue

10. Stability & Reactivity







11. Toxicological Information

Summary

IF SWALLOWED: Swallowing of the dust may result in abdominal discomfort and irritation and burns to the gastrointestinal tract.

IF IN EYES: Contact with wet (unhardened) mixture, cement mixtures or concrete dust can cause effects ranging from irritation to serious eye damage/burns and blindness. Note: the level of irritation/damage is dependent on the quantity of the product, the pH, and the length of time exposed. E.g., if product is washed out of the eye immediately, effects will be minor. However, if dust or wet concrete is left in contact with the eye, serious damage/blindness could result.

IF ON SKIN: Contact with wet (unhardened) mixture can cause skin irritation or severe chemical burns (third degree). Brief exposure to the skin (i.e., washed off immediately) will result in irritation. However, if the cement or dust is left on the skin for an extended time (e.g., if inside boots or absorbed through overalls), burns to the skin are possible. Thickening of the skin and/or rash is also possible. Contact with dry adhesive can cause skin irritation.

IF INHALED: there may be irritation of the respiratory tract if dust is inhaled. Short term (acute) silicosis (see "systemic" below) can also occur with one-off exposures to very high levels of fine crystalline silica dust. Other short term effects include irritation, choking and difficulty breathing.

CHRONIC: this product does contain crystalline silica, inhalation of which has been linked to silicosis and lung cancer.). Symptoms include shortness of breath, cough, fever, loss of appetite and cyanosis (bluish skin). See carcinogenicity and systemic toxicity below.

Supportin	ng Data	
Acute	Oral	No data for mixture is available. Using LD ₅₀ 's for ingredients, the estimated LD ₅₀ (oral, rat) for the mixture is $> 5,000$ mg/kg.
	Dermal	No data for mixture is available. Using LD ₅₀ 's for ingredients, the estimated LD ₅₀ (dermal, rat) for the mixture is >2,000 mg/kg.
	Inhaled	No data for mixture is available. Using LC ₅₀ 's for ingredients, the estimated LC ₅₀ (inhalation, rat) for the mixture is >5mg/L (dust). Exposure the dust of this product may result in respiratory irritation.
	Еуе	The mixture is considered to be corrosive to the eye, because one of the ingredients (Portland cement), present at >10% is considered an eye corrosive. The dust is considered a corrosive, on contact with water forms an alkaline mixture, which is caustic and may cause serious eye damage.
	Skin	The mixture is classified as a skin irritant 6.3A, because one of the ingredients (portland cement) present > 10% is considered a skin irritant. Dermatitis may develop following exposure.
Chronic	Sensitisation	The mixture is not considered to be a sensitizer, because none of the ingredients present in greater than 0.1% are classified as sensitizers.
	Mutagenicity	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	This mixture may contain crystalline silica. Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC Group 1). The mixture triggers 6.7A classification (confirmed carcinogen). The carcinogenicity of silica is related to long term (e.g., 10 years) inhalation of very fine particulate (e.g., from sand blasting or dry cutting of concrete). Carcinogenicity of silica appears linked to development of silicosis (see systematic below) followed by complications and, eventually lung cancer.
	Reproductive /	No data for mixture is available. No ingredient present at concentrations > 0.1% is
	Developmental	considered a reproductive or developmental toxicant or have any effects on or via lactation.
	Systemic	This mixture is considered to be a target organ toxicant, because of the presence of crystalline silica at greater than 1%. Crystalline silica triggers 6.9A classification if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting. This is due to the development of acute silicosis which can occur following exposure to extremely high levels of fine silica dust. Silicosis is a type of pneumoconiosis – a disease of the lung that causes inflammation, scar tissue, lesions and fibrosis in the lung (alveolar). Symptoms include shortness of breath, cough, fever, loss of appetite and
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MP & P MORTAR

Safety Data Sheet





cyanosis (bluish skin). Silicosis can occur following prolonged exposure (e.g., 10 years) to relatively high levels of fine crystalline silica dust. None known.

Aggravation of existing conditions

12. Ecological Data

Summary

This mixture is considered to be harmful in the environment when in a soluble form. This is primarily due to the high pH of the product. Do not allow product to enter drains and waterways.

Supporting Data	
Aquatic	No data for mixture is available. Using EC_{50} 's for ingredients, the estimated EC_{50} for the mixture is > 100 mg/L. Water contaminated with this product is alkaline and should not be allowed to enter the environment.
Bioaccumulation	Not applicable
Degradability	Not applicable
Soil	No data available for the mixture. This product is not classified as ecotoxic in the soil environment. The soil toxicity value for the mixture is estimated to be \geq 100 mg/kg.
Terrestrial vertebrate	This product is not considered harmful to terrestrial vertebrates. No LC_{50} (diet) data for ingredients are available and the classification is based on the LD_{50} (oral) – see section 11 – oral toxicity.
Terrestrial invertebrate Biocidal	The mixture is not considered harmful to terrestrial invertebrates. Not applicable
	13. Disposal Considerations
Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal method	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated packaging	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

This mixture is n	ot considered a ha	zardous substance for transport on land.	
UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	NA	Hazchem code:	NA

reuse or recycle packaging.

IMDG

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	NA	EmS	NA

ΙΑΤΑ

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	NA	ERG Code	NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: Page 6 of 8 September 2019 Product Codes: MP & P MORTAR



HSR002545: Construction Products (Toxic [6.7A]) Group Standard 2017. All ingredients appear on the NZIoC. **Specific Controls**

Key workplace requirements are: SDS Inventory Packaging

To be available within 10 minutes in workplaces storing any quantity. An inventory of all hazardous substances must be prepared and maintained. All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied. Required if > 1000kg is stored. Not required. Not required. Not required. Bunding and secondary containment Required if > 1000kg is stored. Required if > 1000kg is stored. Location compliance certificate Not required. Not required. Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

Labelling

Tracking

Signage

Emergency plan

Certified handler

Flammable zone

Fire extinguisher

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information	
Abbreviations	
Approval Code	Approval Construction Products (Toxic [6.7A]) Group Standard 2017, HSR002545, Controls, EPA. www.epa.govt.nz
CAS Number EC ₅₀	Unique Chemical Abstracts Service Registry Number Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
EPA HAZCHEM Code	Environmental Protection Authority (New Zealand) Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO IARC LEL	Hazardous Substances and New Organisms (Act and Regulations) International Agency for Research on Cancer Lower Explosive Limit
LD ₅₀ LC ₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
NZIOC MSDS (SDS) STEL	New Zealand Inventory of Chemicals Material Safety Data Sheet (or Safety Data Sheet) Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA UEL	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours) Upper Explosive Limit
UN Number WES	United Nations Number Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.





References	
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
Controls	EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz
WES	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz.
Other References:	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
Review	
Date November 2009 November 2014	Reason for review Not applicable – new SDS Update, review of classes for ingredients. Review of toxicological data, formatting. DoL to WorkSafe, including IATA and IMDG information, Address change.
September 2019	5 Year Review

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. A compliance record is available on request. To contact the SDS author, email info@datachem.co.nz or phone: (09) 940 30 80.

