**Safety Data Sheet** 



### Identification of Substance & Company

#### **Product**

Product name Zeolite - granular

Product code NA

HSNO approval HSR002544 or HSR2503

Approval descriptionConstruction Products (Subsidiary Hazard) Group Standard 2020 or

Additives, Process Chemicals and Raw Materials (Subsidiary Hazard)

Group Standard 2020

UN number NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

**Uses** Raw material

**Company Details** 

Company Blue Pacific Minerals
Address 11-17 Huttloc Drive,

Tokoroa 3420

3420 New Zealand

 Website
 www.bpmnz.co.nz

 Telephone
 +64 7 885 0550

 Email
 info@bpmnz.co.nz

### **Emergency Telephone Number: 0800 678 444**

### 2. Hazard Identification

#### **Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002544 or HSR2503, Construction Products (Subsidiary Hazard) Group Standard 2020) or Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

#### Classes Hazard Statements

6 Skin irritation cat 2 H315 - Causes skin irritation. Eye irritation cat 2 H319 - Causes eye irritation.

#### **SYMBOLS**

### **WARNING**



#### **Other Information**

Zeolite contains cristobalite. Particle size is >80μm. The respirable fraction of crystalline silica is <0.1% in total.

#### Australian GHS classification

Skin irritation Cat 2 H315 Causes skin irritation. Eye irritation Cat 2B H320 – Causes eye irritation.

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#### **Precautionary Statements**

**Prevention** P103 - Read label before use.

P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing.

P280 - Wear eye/face protection.

**Response** 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.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage No storage statements

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

#### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (w/w %)
Zeolite – crystalline aluminosilicates may contains oxides including	1318-02-1	100%
silica and aluminium oxide:		
Silica component may include		
Cristobalite (respirable)	14464-46-1	<0.1%

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

#### 4. First Aid

#### **General Information**

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

Ready access to running water is required. Accessible eyewash is required.

facilities

**Exposure** 

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

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. If eye irritation persists: Get medical advice.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention. Take off contaminated clothing and wash before re-use.

**Inhaled** If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh

air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

#### **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-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

Product does not burn. Dust may form irritating atmosphere.

**Protective equipment:** No special measures are required.

Hazchem code:

NA

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#### 6. Accidental Release Measures

**Containment** There is no current legal requirement for containment of this product.

**Emergency procedures** In the event of large spillage 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. Sweep up the solid. Avoid creating dust. If

appropriate, use a gentle water spray to wet material to minimise dust generation. Sweep up and collect recoverable material into labelled containers for recycling or

salvage. This material may be suitable for approved landfill. Dispose of only in accord

with all regulations.

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of

dusts. Work up wind or increase ventilation.

#### 7. Storage & Handling

Storage Handling

Disposal

Stable under normal use and storage conditions.

Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Do not breathe

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 Workpla	ice	Ingredient			WES-TWA	WES-STEL
Exposure S	tds	Silicon dioxide			see crystalline silica	data unavailabl

ble 10mg/m<sup>3</sup> Aluminium oxide data unavailable Iron (II) Oxide 5mg/m<sup>3</sup> (as Fe) data unavailable 10mg/m<sup>3</sup> (fume) Magnesium oxide data unavailable  $2mg/m^3$ Calcium oxide data unavailable 10mg/m<sup>3</sup> Titanium dioxide data unavailable 0.025mg/m3 Crystalline silica, respirable dust data unavailable

#### **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.

#### **Personal Protective Equipment**

General Personal Protective Equipment (PPE) should not be used as the primary means of

exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and

where applicable the cleaning of respirators should be undertaken.

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if dust is likely.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating,

drinking or smoking. Wash contaminated clothing before re-use.

**Respiratory**To prevent irritation a well fitted dust mask should be used (this is not recommended

when exposure is close to the WES). Use of a P2 dust mask or fine particulate half or full face respirator with an effective seal is recommended when airborne concentrations approach the WES (section 8). Fit testing and clear guidelines and training for use and

maintenance of PPE are necessary.

#### **WES Additional Information**

Not applicable

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### 9. Physical & Chemical Properties

Appearance solid, granular, off white/tan colour

Odour no odour Odour Threshold no data

pH 8.65 (10% aqueous suspension)

Freezing/melting point no data **Boiling Point** no data **Flashpoint** no data Flammability no data **Upper & lower flammable limits** no data Vapour pressure no data Vapour density no data Specific gravity/density ~0.65g/cm3

Solubility not soluble in water

Partition coefficient no data
Auto-ignition temperature no data
Decomposition temperature no data
Viscosity no data

Particle Characteristics Respirable fraction <2%, crystalline silica <0.1%

#### 10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Avoid the creation of

dust.

Incompatible groups Avoid contact with strong oxidsing agents and hydrogen fluoride.

Hazardous decomposition None known

products

Hazardous reactions Zeolites will react with hydrogen fluoride (HF) acid. Avoid contact with strong oxidsing

agents.

#### 11. Toxicological Information

### Summary

IF IN EYES: Fine dust may cause irritation when in direct contact.

IF ON SKIN: Material may cause drying out of skin.

IF INHALED: May cause respiratory irritation. Also see chronic effects.

IF SWALLOWED: No adverse effects anticipated under normal use conditions.

CHRONIC EFFECTS: No effects anticipated. This product is granular with a low respirable fraction.

#### **Supporting Data**

Acute Oral Not considered acutely toxic if swallowed.

**Dermal** Not considered acutely toxic by dermal contact.

**Inhaled** The substance is not considered acutely toxic if inhaled, however there may be irritation

of the respiratory tract if dust is inhaled.

Eye The mixture is not considered to be an eye irritant. Dust may be an eye irritant

(mechanical irritation).

**Skin** The mixture is considered to be a mild skin irritant.

**Sensitisation** No ingredient present at concentrations > 0.1% is considered a sensitizer.

**Mutagenicity** No ingredient present at concentrations > 0.1% is considered a mutagen.

**Carcinogenicity**Zeolites have been classed by IARC as group 3 – cannot be evaluated as to their carcinogenicity to humans. Respirable crystalline silica is present <0.1%. Crystalline Silica triggers carcinogen cat 1 classification (confirmed carcinogen), (IARC Group 1).

Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or

**Developmental** developmental toxicant or have any effects on or via lactation. **Systemic** Zeolite granular is not considered a system target organ toxicant.

Aggravation of None known

existing conditions

### 12. Ecological Data

#### **Summary**

Chronic

This product is not considered ecotoxic.

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#### **Supporting Data**

Aquatic Not ecotoxic in the aquatic environment.

**Bioaccumulation** No data **Degradability** No data

Soil No consided ecotoxic in the soil environment.

Terrestrial vertebrate Not toxic towards terrestrial vertebrates

Terrestrial invertebrate Not toxic towards terrestrial invertebrates

Biocidal Not biocidal

Environmental effect levels No EELs are available for this mixture or ingredients

#### 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

reuse or recycle packaging.

#### 14. Transport Information

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

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

**IMDG** 

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA Precautions: NA EmS NA

**IATA** 

UN number: NA Proper shipping name: Not regulated

Class(es)NAPacking group:NAPrecautions:NAERG GuideNA

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#### 15. **Regulatory Information**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002544 or HSR002503, Construction Products (Subsidiary Hazard) Group Standard 2020 or Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020.

#### **Specific Controls**

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

An inventory of all hazardous substances must be prepared and maintained. Inventory

All hazardous substances should be appropriately packaged including Packaging

substances that have been decanted, transferred or manufactured for own use

or have been supplied

Must comply with the Hazardous Substances (Labelling) Notice 2017. Labelling

Emergency plan Not required. Certified handler Not required. Tracking Not required. Bunding & secondary containment Not required. Signage Not required. Location test certificate Not required. Flammable zone Not required. Fire extinguisher 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

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**

**CAS Number** 

Approval HSR002544 or HSR002503, Construction Products (Subsidiary Hazard) Group **Approval Code** 

Standard 2020 or Additives, Process Chemicals and Raw Materials (Subsidiary Hazard)

Group Standard 2020, Controls, EPA. www.epa.govt.nz Unique Chemical Abstracts Service Registry Number

Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test EC50

population (e.g. daphnia, fish species)

**EPA** Environmental Protection Authority (New Zealand)

**HAZCHEM Code** Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

**HSNO** Hazardous Substances and New Organisms (Act and Regulations)

**IARC** International Agency for Research on Cancer

**LEL** Lower Explosive Limit

 $LD_{50}$ 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 LC<sub>50</sub>

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

**STEL** 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** Time Weighted Average - generally referred to WES averaged over typical work day

(usually 8 hours)

UEL Upper Explosive Limit **UN Number United Nations Number** 

Workplace Exposure Standard - The airborne concentration of a biological or chemical **WES** 

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a

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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

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: EU ECHA, ingredients SDS's, ChemIDplus

Review

Date Reason for review

March 2016 New SDS.

December 2017 New logo, update of group standard February 2018 Addition of GHS classifications, section 2

September 2020 New logo

July 2023 Addition of particle size information

October 2023 Review of silica WES

#### **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 GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

