

1. Identification of Substance & Company

Product

Product name

Product code

**HSNO approval
Approval description**

HSR002544 or HSR2503
Construction Products (Subsidiary Hazard) Group Standard 2020 or
Additives, Process Chemicals and Raw Materials (Subsidiary Hazard)
Group Standard 2020

**UN number
Proper Shipping Name
Packaging group
Hazchem code
Uses**

NA
NA
NA
NA
Raw material

Company Details

**Company
Address**

Blue Pacific Minerals
11-17 Huttloc Drive,
Tokoroa
3420

**Website
Telephone
Email**

www.bpmnz.co.nz
+64 7 885 0550
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

Skin irritation cat 2
Eye irritation cat 2

Hazard Statements

H315 - Causes skin irritation.
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

This product has been assessed according to GHS and is classified as follows:

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

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 silica and aluminium oxide: | 1318-02-1 | 100% |
| 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 facilities Ready access to running water is required. Accessible eyewash is required.

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: | There are no specific risks for fire/explosion for this chemical. It is non-flammable. |
| Suitable extinguishing substances: | 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 |



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. |
| Disposal | 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 | Stable under normal use and storage conditions. |
| Handling | 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 Workplace Exposure Stds | Ingredient | WES-TWA | WES-STEL |
|-----------------------------------|-------------------------------------|----------------------------|------------------|
| | Silicon dioxide | see crystalline silica | data unavailable |
| | Aluminium oxide | 10mg/m ³ | data unavailable |
| | Iron (II) Oxide | 5mg/m ³ (as Fe) | data unavailable |
| | Magnesium oxide | 10mg/m ³ (fume) | data unavailable |
| | Calcium oxide | 2mg/m ³ | data unavailable |
| | Titanium dioxide | 10mg/m ³ | data unavailable |
| | Crystalline silica, respirable dust | 0.025mg/m ³ | 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



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/cm ³ |
| 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 oxidising agents and hydrogen fluoride. |
| Hazardous decomposition products | None known |
| Hazardous reactions | Zeolites will react with hydrogen fluoride (HF) acid. Avoid contact with strong oxidising 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. |
| Chronic | 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 / Developmental | No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation. |
| | Systemic | Zeolite granular is not considered a system target organ toxicant. |
| | Aggravation of existing conditions | None known |



12. Ecological Data

Summary

This product is not considered ecotoxic.

Supporting Data

| | |
|------------------------------------|---|
| Aquatic | Not ecotoxic in the aquatic environment. |
| Bioaccumulation | No data |
| Degradability | No data |
| Soil | No considered 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

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|-------------------------------|--|
| 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: | NA | Proper shipping name: | NA |
| Class(es) | NA | Packing group: | NA |
| Precautions: | NA | Hazchem 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) | NA | Packing group: | NA |
| Precautions: | NA | ERG Guide | NA |

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. |
| Inventory | An inventory of all hazardous substances must be prepared and maintained. |
| Packaging | All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied |
| Labelling | Must comply with the Hazardous Substances (Labelling) Notice 2017. |
| 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.

Australia

| | | |
|--|-------------------|-------------------------------|
| Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) | Not scheduled | |
| Applicable prohibitions and notifications/licensing requirements | Not listed | |
| Agricultural and Veterinary Chemicals Act Listing in the Australian Inventory of Chemical Substances (AICS) | Not listed | |
| | Quartz | IMAP - Tier II - Human Health |
| | Cristobalite | IMAP - Tier II - Human Health |
| | Zeolite | IMAP - Tier I - Human Health |
| Additional information | Not applicable | |
| GHS Hazardous Chemical Information List | Not listed | |
| Australian Inventory of Industrial Chemicals | Listed (Zeolites) | |

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

| | |
|------------------------|---|
| Approval Code | Approval HSR002544 or HSR002503, Construction Products (Subsidiary Hazard) Group Standard 2020 or Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020, Controls, EPA. www.epa.govt.nz |
| CAS Number | Unique Chemical Abstracts Service Registry Number |
| EC₅₀ | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test 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 |
| LD₅₀ | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). |
| LC₅₀ | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (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 |
| WES | 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: | 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 |
| August 2024 | Review of section 15 |

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.

