**Safety Data Sheet** 



## Identification of Substance & Company

**Product** 

Product name Zorbi-fresh® Active

Product code NA

HSNO approval HSR002521.

Approval description Animal Nutritional and Animal Care Products Group Standard 2017

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

**Company Details** 

Company Blue Pacific Minerals Address 11-17 Huttloc Drive,

Tokoroa 3420

Website New Zealand
Website www.bpmnz.co.nz
Telephone +64 7 885 0550
Email info@bpmnz.co.nz

## Emergency Telephone Number: +64 274 573007

#### 2. Hazard Identification

#### **Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002521., Animal Nutritional and Animal Care Products Group Standard 2017, and is classified as follows:

#### HSNO Classes Hazard Statements

6.3A H315 - Causes skin irritation. 6.4A H320 - Causes eye irritation. 6.7A\* H350 - May cause cancer.

6.9A\* H372 - Causes damage to organs through prolonged or repeated exposure.

\* This substance only triggers 6.7A and 6.9A if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting.

#### **SYMBOLS**

# **DANGER**





## GHS classification - effective after 30 April 2021

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002521., Animal Nutritional and Animal Care Products Group Standard 2020, and is classified as follows:

#### GHS Classes Hazard Statements

Skin irritation Cat 2

Eye irritation Cat 2B

Carc. cat 1\*

H315 - Causes skin irritation.

H320 - Causes eye irritation.

H350 - May cause cancer.

STOT RE cat 1\* H372 - Causes damage to organs through prolonged or repeated exposure.

\* These GHS classes are only triggered if this substance is in the form of a fine respirable dust in an occupational (chronic exposure) setting.

#### **Precautionary Statements**

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 dust.

Page 1 of 6 February 2021

Product Name: Zorbi-fresh® Active

**Safety Data Sheet** 



P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/eye protection.

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.

P337+P313 - If eye irritation persists: Get medical advice/attention. P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P405 - Store locked up.

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	>99%
Silica component may include		
Cristobalite	14464-46-1	<10
Quartz (crystalline silica)	14808-60-7	<10
Oxidising agent not contributing to HSNO (GHS) classes	Proprietary	<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**

Recommended first aid

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). IF exposed or concerned: Get medical advice/ attention.

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

facilities	3 s sq sq
Exposure	
Swallowed Eye contact	Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor. 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 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:

Unsuitable extinguishing

substances:

Products of combustion:
Protective equipment:

Product does not burn. Dust may form irritating atmosphere. No special measures are required.

NA

Unknown.

alcohol resistant foam.

Hazchem code: N

## 6. Accidental Release Measures

#### Containment

If greater than 1000kg is stored, secondary containment is required. Emergency plans to manage any potential spills must be in place. Prevent spillage from spreading or entering

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

Page 2 of 6 February 2021

Product Name: Zorbi-fresh® Active

**Safety Data Sheet** 



soil, waterways or drains.

**Emergency procedures** In the event of large spillage (>100kg) of the dry product 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 Vacuum up and collect recoverable material into labelled containers for recycling or

salvage. Recycle containers wherever possible. This material may be suitable for

approved landfill. Dispose of only in accord with all regulations.

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

dust. Work up wind or increase ventilation.

## 7. Storage & Handling

**Precautions** 

Storage Stable under normal use and storage conditions.

Handling Keep exposure to a minimum, and minimise the

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	Ingredient	WES-TWA*	WES-STEL
Exposure Stds	Silicon dioxide	see crystalline silica	data unavailable
	Aluminium oxide	10mg/m <sup>3</sup>	data unavailable
	Iron (II) Oxide	5mg/m³ (as Fe)	data unavailable
	Magnesium oxide	10mg/m <sup>3</sup> (fume)	data unavailable
	Calcium oxide	2mg/m <sup>3</sup>	data unavailable
	Titanium dioxide	10mg/m <sup>3</sup>	data unavailable
	Crystalline Silica – all forms	0.05mg/m <sup>3</sup>	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**

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



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** fine dust, off white/tan colour

**Odour** no odour

pH 8.65 (10% aqueous suspension)

Vapour pressure NA

Page 3 of 6 February 2021

Product Name: Zorbi-fresh® Active

**Safety Data Sheet** 



Viscosity NA
Boiling point NA
Volatile materials no data
Freezing / melting point NA

Solubility not soluble in water Specific gravity / density ~0.65g/cm<sup>3</sup>

Specific gravity / density ~0.65g/ Flash point no data Danger of explosion NA Auto-ignition temperature NA Upper & lower flammable limits NA

Corrosiveness non corrosive

### 10. Stability & Reactivity

Stability Stable

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

Avoid contact with strong oxidsing agents and hydrogen fluoride.

dust.

Incompatible groups

**Hazardous decomposition** 

products

None known

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: The adverse health effects from respirable crystalline silica exposure-silicosis, cancer, scleroderma, tuberculosis, and nephrotoxicity- are chronic effects.

#### **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. Short term (acute) silicosis (see "systemic" below) can also occur with one-off exposures to extremely high levels of fine crystalline silica dust. Other short term effects include irritation, choking and difficulty breathing.

**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.

**Chronic** 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. However, there is evidence that this material does contain quartz and cristobalite. Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC Group 1). Crystalline Silica triggers 6.7A classification (confirmed carcinogen). The carcinogenicity of silica is related to long term (e.g., 10 years) inhalation of very fine particulate. Carcinogenicity of silica

appears linked to development of silicosis (see systematic below) followed by

complications and, eventually lung cancer

Reproductive / Developmental Systemic

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

developmental toxicant or have any effects on or via lactation.

The respirable fraction of this product 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 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 cyanosis (bluish skin). Silicosis can occur following prolonged exposure (e.g., 10 years)

to relatively high levels of fine crystalline silica dust.

Aggravation of existing conditions

None known

**Safety Data Sheet** 



## 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 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

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

## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002521. Animal Nutritional and Animal Care Products Group Standard 2017.

### **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 Required if > 1000kg is stored.

Certified handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 1000kg is stored.

Signage Not required.

Location compliance 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.

Page 5 of 6 February 2021

**Safety Data Sheet** 



## 16. Other Information

**Abbreviations** 

Approval Code Approval Code: HSR002521. Animal Nutritional and Animal Care Products Group

Standard 2017. EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

**EC**50 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)

GHS Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

**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**<sub>50</sub> 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 New Zealand Inventory of Chemicals

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

**STOT RE**System Target Organ Toxicity – Repeated Exposure **STOT SE**System Target Organ Toxicity – Single Exposure

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

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

February 2021 New SDS.

#### 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 and GHS 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 9 940 30 80.

