Safety Data Sheet



Product Name: Zorbi-Fresh® Active

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 2020

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

Uses Feed additive

Company Details

Company Blue Pacific Minerals Address 11-17 Huttloc Drive,

> Tokoroa 3420

 Website
 New Zealand

 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 2020). The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

GHS 7 Classes

Skin irritant category 2 H315 -Eye irritant category 2 H319 -

SYMBOLS

Hazard Statements

H315 - Causes skin irritation. H319 - Causes serious eye irritation.

WARNING



Other Classifications

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

Precautionary Statements

Preventative 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.

Safety Data Sheet



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 (respirable)	14464-46-1	<0.1%
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

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.

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 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

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:

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

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:

alcohol resistant foam. 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 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

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.

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

dust. Work up wind or increase ventilation.

Page 2 of 6 November 2023

Safety Data Sheet



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

AppearancegranulesOdourno odourOdour Thresholdno 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 ~0.65g/cm³ Specific gravity/density

Solubility not soluble in water

Partition coefficient no data
Auto-ignition temperature no data

Page 3 of 6 November 2023

Product Name: Zorbi-Fresh® Active

Safety Data Sheet



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

Hazardous decomposition

products

None known

roducts

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

Avoid contact with strong oxidsing agents and hydrogen fluoride.

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. 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.

CarcinogenicityZeolites 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

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

RestrictionsThere 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

Page 4 of 6 November 2023

Product Name: Zorbi-Fresh® Active

Safety Data Sheet



Contaminated packaging

rendered non-hazardous before discharge to the environment. 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.

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

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

IATA

UN number: NA Proper shipping name: Not regulated

Class(es) Packing group: NA NA **Precautions:** NA **ERG Guide** NA

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 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. All hazardous substances should be appropriately packaged including Packaging

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

Product Name: Zorbi-Fresh® Active

or have been supplied

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

Required if > 1000kg is stored. Emergency plan

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.

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.

Safety Data Sheet



Product Name: Zorbi-Fresh® Active

16. Other Information

Abbreviations

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

Standard 2020. 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)

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)

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).

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)

UELUpper Explosive LimitUN NumberUnited 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

February 2021 New SDS.

November 2023 Update of WES and section 3, 9, update to group standard

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.

