Safety Data Sheet



Opt

1. Identification of Substance & Company

Product

Product name
Product code
HSNO approval
Approval description
UN number
Proper Shipping Name
Packaging group
Hazchem code
Uses

Optimate[™] Kickstart S&G NA HSR002521. Animal Nutritional and Animal Care Products Group Standard 2020 NA NA NA NA Feed additive

Company Details

Company Address

Website Telephone Email

Blue Pacific Minerals 11-17 Huttloc Drive, Tokoroa 3420 New Zealand www.bpmnz.co.nz +64 7 885 0550 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 Classes

Hazard Statements

H315 - Causes skin irritation.

H320 - Causes eye irritation.

Skin irritation Cat 2 Eye irritation Cat 2B SYMBOLS

WARNING

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Other Classifications

Zeolite and Bentonite may contain crystalline silica. The following classification ONLY applies to this substance if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting. This substance is in the form of granules. Carcinogen. cat 1* H350 - May cause cancer. STOT RE cat 1* H372 - Causes damage to organs through prolonged or repeated exposure.

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.
- 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.

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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

CAS/ Identification	Concentrate	
1318-02-1	>50	
471-34-1	30-50%	
Proprietary	1-10%	
14464-46-1	<10	
14808-60-7	<10	
	1318-02-1 471-34-1 Proprietary 14464-46-1	

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 facilities	Ready access to running water is required. Accessible eyewash is required.
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 resh 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:	There are no specific risks for fire/explosion for this chemical. It is non-flammable.
Suitable extinguishing	Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or
substances:	alcohol resistant foam.
Unsuitable extinguishing	Unknown.
substances: Products of combustion: Protective equipment: Hazchem code:	Product does not burn. Dust may form irritating atmosphere. No special measures are required. 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. In the event of large spillage (>100kg) of the dry product alert the fire brigade to location

Emergency procedures

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Clean-up method	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. 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
Precautions	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	

Storage Handling	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 Workplace	Ingredient	WES-TWA*	WES-STEL
Exposure Stds	Silicon dioxide	see crystalline silica	data unavailable
	Crystalline Silica – all forms	0.05mg/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

Eyes		
Skin		

Protective eyewear is not normally necessary when using this product. However, it always prudent to use protective eyewear if dust is likely. 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.

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

Respiratory

9. Physical & Chemical Properties

Appearance	
Odour	
рН	
Vapour pressure	
Viscosity	
Boiling point	
Volatile materials	
Freezing / melting point	
Solubility	

Granules no odour Not specified NA NA no data NA partially soluble in water

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Specific gravity / density	no data
Flash point	no data
Danger of explosion	NA
Auto-ignition temperature	NA
Upper & lower flammable limits	NA
Corrosiveness	non corrosive

10. Stability & Reactivity

Stability Conditions to be avoided	Stable Containers should be kept closed in order to avoid contamination. Avoid the creation of dust.
Incompatible groups Hazardous decomposition products	Avoid contact with strong oxidsing agents and hydrogen fluoride. 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

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Acute	Oral Dermal Inhaled	Not considered acutely toxic if swallowed. Not considered acutely toxic by dermal contact. 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 considered to be an eye irritant. Dust may be an eye irritant.	
	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 Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a mutagen. 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 /	No ingredient present at concentrations > 0.1% is considered a reproductive or	
	Developmental	developmental toxicant or have any effects on or via lactation.	
	Systemic	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	

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12. Ecological Data

Summary

This product is not considered ecotoxic.

COOXIC.				
Not ecotoxic in the aquatic environment. No data No data No consided ecotoxic in the soil environment. Not toxic towards terrestrial vertebrates Not toxic towards terrestrial invertebrates Not biocidal No EELs are available for this mixture or ingredients				
13. Disposal Considerations				
There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.				
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.				
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. Transp	ort Information	on				
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			

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 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 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.

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16. Other Information

Abbreviations	
Abbieffations	
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, 7 th 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 ₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC ₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population
NZIoC	(usually rats) 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
TWA	Time Weighted Average – generally referred to WES averaged over typical work day
UEL	(usually 8 hours) 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
Data	database (CCID).
Controls	EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)
WES	Regulations 2017, www.legislation.govt.nz The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available
WEG	on their web site – www.worksafe.govt.nz.
Other References:	EU ECHA, ingredients SDS's, ChemIDplus
Review	
Date	Reason for review
May 2022	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 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.

