Safety Data Sheet



# 1. Identification of Substance & Company

## Product

Product name Product code HSNO approval Approval description UN number DG Class Proper Shipping Name Packaging group Hazchem code Uses Agrifert SeaBorN SOIL-0039, SOIL-0065 HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2020 NA NA NA NA NA Fertiliser

### **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: 0800 678 444

# 2. Hazard Identification

### Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571, Fertilisers (Subsidiary Hazard) 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 Eye irritant category 2 Reproductive toxicity category 2

#### **Hazard Statements**

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H361 - Suspected of damaging fertility or the unborn child.

SYMBOLS



#### **Other Classifications**

There are no other classifications that are known to apply.

#### **Precautionary Statements**

Prevention

- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection.

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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.
	P308+P313 - IF exposed or concerned: Get medical advice/ attention.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

# 3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
urea	57-13-6	10-30%
boric acid	10043-35-3	0.1-1%
Ingredients not contributing to GHS classes including seaweed extract and minerals	Mixture	10-30%
water	7732-18-5	balance

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	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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	Generally, inhalation of fumes/vapours/dusts is unlikely to result in adverse health effects. 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: Unsuitable 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. Unknown.
Products of combustion:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	NA
6. Accidental Release Me	asures
Containment Emergency procedures	In all cases design storage to prevent discharge to storm water. In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any

unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust.

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Clean-up method Disposal Precautions	Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately). Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services. Mop 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 vapours. Work up wind or increase ventilation.
7. Storage & Handling	
Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.
Handling	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

# 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/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace	Ingredient	WES-TWA		WES-STEL
Exposure Stds	potassium hydroxide	No TWA,	2mg/m <sup>3</sup> (ceiling)	-
	phosphoric acid	1mg/m <sup>3</sup>		-
	boric acid:	-		
	Borates, tetra, sodium salts: anhydrous:	1mg/m <sup>3</sup>		-
	decahydrate:	5mg/m <sup>3</sup>		-
	pentrahydrate	1mg/m <sup>3</sup>		-

#### **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	Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.
Skin	Protective gloves are recommended. Nitriles gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1.
Respiratory	Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.

#### **WES Additional Information**

Not applicable

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# 9. Physical & Chemical Properties

Particle characteristics no data
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# 10. Stability & Reactivity

Stability Conditions to be avoided	Stable Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible groups Substance Specific Incompatibility	Strong acids, bases and oxidising agents None known
Hazardous decomposition products Hazardous reactions	Thermal decomposition may result in oxides of carbon, sulphur and nitrogen. None known

# 11. Toxicological Information

## Summary

IF SWALLOWED: Not expected to show an effect at this concentration. Large amounts may cause gastrointestinal disturbances.

IF IN EYES: may cause eye irritation.

IF ON SKIN: May cause skin irritation.

IN INHALED: may cause respiratory irritation.

CHRONIC TOXICITY: Exposure to boric acids/borates over prolonged periods may affect the reproductive system in both males and females.

## Supporting Data

Acute	Oral	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000 mg/kg. Data considered includes: potassium hydroxide 273 mg/kg (rat), phosphoric acid 1530 mg/kg (rat), boric acid 466 mg B/kg (mouse) = 2668 mg/kg (mouse).
	Dermal	Using $LD_{50}$ 's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg.
	Inhaled	Using $LD_{50}$ 's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h.
	Eye	The mixture is considered to be an eye irritant, because some of the ingredients present are considered eye irritants in more concentrated form.
	Skin	The mixture is considered to be a skin irritant, because some of the ingredients present are considered skin irritants in more concentrated form.

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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	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive /	The mixture is considered to be a suspected reproductive or developmental toxicant,
	Developmental	because at least one of the ingredients present in greater than 0.1% is suspected to be a reproductive or developmental toxicant (boric acid, borax). Animal experiments have shown that ingestion of borates at high doses or over prolonged periods may affect the reproductive system in both males and females.
	Systemic	No ingredient present at concentrations $> 1\%$ is considered a target organ toxicant.
	Aggravation of existing conditions	None known.

# 12. Ecological Data

# Summary

In all cases prevent run-off to drains, sewers and waterways.

Supporting Data	
Aquatic	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is > 100 mg/L.
Bioaccumulation	No data
Degradability	No data
Soil	No evidence of soil toxicity.
Terrestrial vertebrate	No evidence of toxicity towards terrestrial vertebrates.
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	no data
Environmental effect levels	No data

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 spec	cific restrictions for th	iis 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
ΙΑΤΑ			
UN number:	NA	Proper shipping name:	Not regulated
Class(es)	NA	Packing group:	NA
Precautions:	NA	ERG Guide	NA

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# 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

### **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.	
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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

Approval Code CAS Number EC₅₀ EPA GHS	Approval HSR002571, Fertilisers (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 population (e.g. daphnia, fish species) Environmental Protection Authority (New Zealand) Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised
HAZCHEM Code	edition, 2017, published by the United Nations. Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO IARC LEL	Hazardous Substances and New Organisms (Act and Regulations) International Agency for Research on Cancer Lower Explosive Limit
LD <sub>50</sub> LC <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 STEL	New Zealand Inventory of Chemicals 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 STOT SE TWA	System Target Organ Toxicity – Repeated Exposure System Target Organ Toxicity – Single Exposure Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL UN Number WES	Upper Explosive Limit United Nations Number 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.

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#### 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 The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz.	
WES		
Other References:	Suppliers SDS	
Review		
Date March 2023	Reason for review Not applicable – 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 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.

