Safety Data Sheet



1. Identification of Substance & Company

Product

Product name Agrifert NutraBoost + Fe

Product code SOIL-0095 HSNO approval HSR002571

Approval description Fertilisers (Subsidiary Hazard) Group Standard 2020

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

Company Details

Company Blue Pacific Minerals
Address 11-17 Huttloc Drive,

Tokoroa 3420

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

SYMBOLS

Hazard Statements

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

WARNING



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention P103 - Read label before use.

P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye 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 statement

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

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3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
humates	mixture	30-60%
ferrous sulphate monohydrate	17375-41-6	1-10%
sodium hydroxide	1310-73-2	<1%
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 vapours 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:

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.

Unsuitable extinguishing

substances:

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:

No special measures are required.

Hazchem code:

6. Accidental Release Measures

Containment

In all cases design storage to prevent discharge to storm water.

Emergency procedures If a significant spill occurs:

Stop leak if safe/necessary; Isolate area. Collect spill - see below; Transfer to container

for disposal. Dispose of according to guidelines below (Section 13).

Clean-up method

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.

Disposal

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.

Precautions

No special protective clothing is normally necessary.

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7. Storage & Handling

Avoid storage of harmful substances with food. Store out of reach of children. Storage

> 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/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace WES-TWA WES-STEL Ingredient **Exposure Stds** sodium hydroxide Not TWA, Ceiling 2 mg/m³ 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.

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.

Eyes



Skin

Protective gloves are recommended. Nitrile 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

9. Physical & Chemical Properties

Appearance liquid Odour not specified **Odour Threshold** no data

pН alkaline, 9.5-9.8

Freezing/melting point no data **Boiling Point** no data **Flashpoint** no data **Flammability** not flammable

Upper & lower flammable limits NA Vapour pressure no data Vapour density no data Specific gravity/density 1.18 Solubility partly soluble Partition coefficient no data **Auto-ignition temperature** no data

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Decomposition temperatureno dataViscosityno dataParticle Characteristicsno data

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames. Acids and oxidisers

Incompatible groups
Substance Specific

none known

Incompatibility

HOHE KHOW

Hazardous decomposition

none known

products

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: no effects anticipated.

IF IN EYES: may cause irritation. IF ON SKIN: may cause irritation.

IF INHALED: may cause irritation to mucous membranes and respiratory tract.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is

>2,000 mg/kg.

Dermal Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture

is >2,000 mg/kg.

Inhaled Using LD50'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

(humates, ferrous sulphate) present are considered eye irritants in more concentrated

form.

Skin The mixture is considered to be a skin irritant, because some of the ingredients

(humates, ferrous sulphate) present are considered skin irritants in more concentrated

form.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen.CarcinogenicityNo ingredient present at concentrations > 0.1% is considered a carcinogen.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 No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

This mixture is not considered ecotoxic. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is > 100 mg/L.

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate Not considered ecotoxic towards terrestrial vertebrates (see acute toxicity)

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no da

Environmental effect levels No EELs are available for this mixture or ingredients

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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 specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem 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: 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.

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

Approval Code Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020 Controls,

EPA. www.epa.govt.nz

CAS Number 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)

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

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

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 RESystem 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

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: Suppliers SDS

Review

DateReason for reviewMarch 2023Not 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 and 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.

