Safety Data Sheet



1. Identification of Substance & Company

Product

Product nameAgrifert Enhance SS17Product codeSOIL-0057, SOIL-0064

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
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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

Hazard Statements

Skin irritant category 2 H315 - Causes skin irritation.
Eye irritant category 2 H319 - Causes serious eye irritation.

SYMBOLS

WARNING



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention P103 - Read label before use.

P261 - Avoid breathing vapours.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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 statements

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 (%) |
|----------------------------------|---------------------|----------|
| sodium thiosulphate pentahydrate | 10102-17-7 | 30-60 |
| water | 7732-18-5 | 30-60 |

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: There are no specific risks for fire/explosion for this chemical. It is not classed as

flammable.

alcohol resistant foam.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Unknown.

Products of combustion: Oxides of sulphur and smoke. Water. May form toxic mixtures in air and may

accumulate in sumps, pits and other low-lying spaces, forming potentially explosive

Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

mixtures.

Protective equipment: No special measures are required.

Hazchem code: NA

6. Accidental Release Measures

Containment If greater than 1000kg is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

stormwater.

Emergency procedures 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. 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 on concentrate. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If

this occurs contact your regional council immediately).

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

vapours. Work up wind or increase ventilation.

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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. Avoid skin and eye

contact and inhalation of vapour, mist or aerosols.

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 sodium thiosulphate pentahydrate Not listed Not listed

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



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile gloves are recommended. 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 hands after handling.

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 clear liquid Odour not specified **Odour threshold** no data Нα ~7 Freezing / melting point no data **Boiling point** no data Flash point non flammable **Flammability** non flammable

Upper & lower flammable limits no LEL or UEL no data no data

Vapour density no data

Specific gravity / density 1.35

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Solubility soluble in water

Partition Coefficient: no data
Auto-ignition temperature no data
Decomposition temperature ~100°C
Viscosity no data
Particle characteristics no 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.

None known

Incompatible groups Acids and oxidising agents. Potassium permanganate, potassium nitrate, sodium nitrate,

sodium nitrite, potassium chlorate, lead, metallic salts, silver salts, mercury salts.

Thermal decomposition may result in oxides of sulphur and sodium.

Substance Specific

Incompatibility

Hazardous decomposition

products

Hazardous reactions None known

11. Toxicological Information

Summary

IF SWALLOWED: Not expected to show an effect at this concentration. Large amounts may cause gastrointestinal disturbances. May result in a laxative effects.

IF IN EYES: may cause transient eye irritation.

IF ON SKIN: may cause skin irritation.

IN INHALED: may cause respiratory irritation.

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.

Skin The mixture is considered to be a skin irritant.

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 vertebrateNo evidence of toxicity towards terrestrial vertebrates. **Terrestrial invertebrate**No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data
Environmental effect levels No data

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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 methodDisposal 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.

Contaminated packagingDisposal 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: 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

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 has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020). All ingredients appear on the 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

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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. Not required. Flammable zone Not required. Fire extinguisher

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

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)

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) Upper Explosive Limit

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 SDSMay 2024Review of GHS classes

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.

