



Revised October 2022

# **Safety Data Sheet Trace Mineral Mixes**

## 1. Identification of Substance & Company

**Product** 

**Product name** 

**Product codes** 

**HSNO** approval HSR002521

Approval description Animal Nutritional and Animal Care Products Group Standard 2017

**UN number** 3077 **DG class** 

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, n.o.s.

(contains zinc sulphate, copper sulphate)

Packaging group Ш Hazchem code 2Z

Uses Supplement for animal food

**Company Details** 

Company **Nutritech International** Physical Address 6 Aintree Avenue

Airport Oaks, Mangere Auckland

New Zealand PO Box 201 231 Postal Address Auckland Airport

2150 New Zealand

**Telephone** 0800 736 336 (0800 REMEDY) **Email** customerservices@nutritech.co.nz Website

www.nutritech.co.nz

## **Emergency Telephone Number: 027 600 3131**

## 2. Hazard Identification

## Approval in New Zealand

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 2017): The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

#### **Classes Hazard Statements**

6.1E (oral) H303 - May be harmful if swallowed 6.4A H319 - Causes serious eye irritation. 6.5B H317 - May cause an allergic skin reaction.

9.1A H410 - Very toxic to aquatic life with long lasting effects.

## **SYMBOLS** WARNING











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## GHS 7 - effective from 30 April 2021

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).

#### Classes Hazard Statements

Eye irrit cat 2 H319 - Causes serious eye irritation.
Skin sensitizer cat 1 H317 - May cause an allergic skin reaction.

Aquatic acute cat 1 H400 - Very toxic to aquatic life.

Aquatic chronic cat 1 H410 - Very toxic to aquatic life with long lasting effects.

## **Precautionary Statements**

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P261 - Avoid breathing dust.

P264 - Wash hands thoroughly after handling.

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves/eye protection.

P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.

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.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

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

## 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Copper compounds	mixture	>0.1-<1%
Sodium chloride	7647-14-5	>10-40%
Selenium compound	10102-18-8	<0.1%
Ingredients not contributing to HSNO classes	Mixture	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 Ready access to running water is required. Accessible eyewash is required.

facilities

Tioday access to farming water is required. These solution by ewacit 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 or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

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:

**Products of combustion:** 

Protective equipment: Hazchem code:

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

Carbon dioxide, extinguishing powder, foam, fog sprays.

Unknown.

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.

No special measures are required. 27

6. Accidental Release Measures

If greater than 100kg is stored, secondary containment and emergency plans to manage Containment

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

storm water.

**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. 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.

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 dusts.

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 **Exposure Stds**  Ingredient Copper sulphate **WES-TWA\*** 1.0 mg/m<sup>3</sup> (as Cu dust)

**WES-STEL** data unavailable

sodium selenite

 $0.1 \, \text{mg/m}^{3}$ 

data unavailable







**Nutritech International Limited** 





## **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

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



## Persons with history of allergies, contact dermatitis or chronic rashes should use special precautions to avoid skin contact or exposure to this mixture.

Avoid any skin contact. Wear overalls, rubber boots and impervious gloves. 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. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

#### **WES Additional Information**

Not applicable

## 9. Physical & Chemical Properties

Granules/syrup **Appearance** Odour not specified рΗ not specified Vapour pressure no data Viscosity no data **Boiling point** no data Volatile materials no data Freezing / melting point no data

Solubility partially soluble

Specific gravity / density ~1 Flash point no data Danger of explosion no data **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness non corrosive

## 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. Strong oxidising agents

Incompatible groups **Substance Specific** None known

Incompatibility

Hazardous decomposition

products

Hazardous reactions

None known







May emit toxic fumes when heated to decomposition. Oxides of carbon.







## 11. Toxicological Information

## **Summary**

IF SWALLOWED: may cause gastrointestinal irritation.

IF IN EYES: may cause serious eye damage.

IF ON SKIN: sensitised individuals may experience an allergic skin reaction.

IF INHALED: none known.

**Dermal** 

**Supporting Data** 

Acute Oral Using LD<sub>50</sub>'s for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is

between 2000 and 5,000 mg/kg. Data considered includes: Copper sulphate 125mg/kg

(rabbit), Sodium chloride 3000mg/kg (rat), sodium selenite 2.19mg/kg.

Using LD<sub>50</sub>'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture

is >5000 mg/kg.

Inhaled Using LD<sub>50</sub>'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 not considered to be a skin irritant.

**Chronic** Sensitisation The mixture is considered to be a contact sensitizer, because at least one of the

ingredients (copper sulphate) present in greater than 0.1% is known to be a contact

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 very ecotoxic towards aquatic organisms.

**Supporting Data** 

**Aquatic** Using EC<sub>50</sub>'s for ingredients, the calculated EC<sub>50</sub> for the mixture is < 1 mg/L. Data

considered includes:

copper sulphate 0.0028mg/L (acute, 96hr, Fathead minnow), 0.0014mg/L (48hr,

waterflea), 0.005mg/L (72hr, seawater algae),

Sodium selenite 0.68ppm selenium as selenite (48hr, Daphnia magna), 2.9mg/L - selenium (96hr, Selenastrum capricornutum) = 6.351 mg/L (selenium selenite), 1.5mg/L -

selenium (96hr, Morone saxtilis) = LC<sub>50</sub> selenium selenite = 3.285mg/L,

**Bioaccumulation** No data **Degradability** No data

**Soil** No evidence of soil toxicity.

**Terrestrial vertebrate** See acute toxicity.

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

**Biocidal** no data

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

## 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.







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## 14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for

transport.

UN number: 3077 Proper shipping name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, n.o.s. (contains copper sulphate)

Class(es)9Packing group:IIIPrecautions:Marine PollutantHazchem code:2Z

## 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 2017. 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 Required if > 100kg is stored.

Certified handler Not required.

Tracking Not required.

Bunding & secondary containment Required if > 100kg is stored. Signage Required if > 100kg is stored.

Location compliance certificate

Flammable zone

Fire extinguisher

Not required.

Not required.

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.

## 16. Other Information

## **Abbreviations**

Approval Code Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard

2017 Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

**EC**<sub>50</sub> 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)

Globally Harmonised System of Classification and Labelling of Chemicals

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/UEL Lower Explosive Limit/ Upper Explosive Limit

**LD**<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)













MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

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

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

**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

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, EU ECHA, ingredients SDS's, ChemIDplus

Review

DateReason for reviewJanuary 2021Not 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 HSNO 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.











