



Identification of Substance & Company

Product

Product name Ruminant no other names

Product codes NA

HSNO approval HSR002521

Approval description Animal Nutritional and Animal Care Products Group Standard 2020

UN number NA
DG class NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

Uses Oral drench for sheep and cattle

Company Details

Telephone

Website

Company Biostart LTD Biostart Brands PTY Ltd

Address 17 Reta Crescent L1/109 Jessie St Kerepehi Armidale

 Kerepeni
 Armidale

 3671
 NSW 2350

 New Zealand
 Australia

 0800 116 229
 1800 359 555

 biostart.co.nz
 biostart.com.au

New Zealand Emergency Telephone Number: 0800 764 766
Australian Emergency Number: 13 11 26

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 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

Aquatic acute cat 4 H402 - Harmful to aquatic life.

SYMBOLS

WARNING

Australian GHS Classification

Aquatic acute cat 4 H402 - Harmful to aquatic life.

Precautionary Statements

Prevention P103 - Read label before use.

P273 - Avoid release to the environment.

Response No response statements. **Storage** No storage statements.

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

3. Composition / Information on Ingredients				
Component	CAS/ Identification	Conc (%)		
Non-viable fermentation products – generally regarded as safe (GRAS)	proprietary	>60%		
Vitamin mixture including Vit A, Vit D3, Vit E	Mixture	0.1-1%		
Copper glycinate	13479-54-4	0.1-0.3%		
Zinc sulphate	7733-02-0	0.5-1.0%		
Other ingredients not contributing to GHS 7 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) – New Zealand or 13 1126 (24 hr emergency service) – Australia.

IF exposed or concerned: Get medical advice/ attention.

Recommended first aid Ready access to running wat

facilities

Ready access to running water is recommended.

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

Eye contact If product gets in eyes, wash material from them with running water for several minutes.

If symptoms occur, seek medical advice.

Skin contactFlush immediately with large amounts of water. Remove all contaminated clothing. **Inhaled**Generally, inhalation of fumes 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:

alcohol resistant foam. Unknown.

Unsuitable extinguishing

substances:

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

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

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 Measures

Containment If greater than 10000L 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 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. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your

regional council immediately).

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.

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.

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Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards in New Zealand

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	Zinc compounds	Zinc dust: 10mg/m ³	-
·		Zinc oxide: 2mg/m ³	-
		Zinc oxide: 0.1mg/m ³ (respirable)	-
	Cu compounds	0.01mg/m ³ (as Cu respirable)	-
	Co compounds	0.02mg/m3 (as Co (bio, carc))	-

 $0.2mg/m^3$ 0.02mg/m³ (respirable) Manganese sulphate monohydrate

Exposure Standards - Australia

Zinc oxide dust: 10mg/m3 Zinc compounds Australian Cu compounds 1mg/m³ (as Cu dust) **Exposure** Co compounds 0.05mg/m3 as Co **Standards** Manganese sulphate monohydrate 1mg/m³

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

Eyes

Skin

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.

Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if splashes are likely.

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

light brown liquid **Appearance** Odour not specified **Odour Threshold** no data pН 3.6-4.2 Freezing/melting point no data **Boiling Point** no data **Flashpoint** no data Flammability no data

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Upper & lower flammable limits no data Vapour pressure no data Vapour density no data Specific gravity/density 1.05-1.08

completely soluble in water Solubility

Partition coefficient no data **Auto-ignition temperature** no data **Decomposition temperature** no data Viscosity no data **Particle Characteristics** no data

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.

Oxides of carbon, sulphur

Incompatible groups Strong acids and bases, oxidisers. none known

Substance Specific

Incompatibility

Hazardous decomposition

products

Hazardous reactions none known

> 11. Toxicological Information

Summary

IF SWALLOWED: may cause gastrointestinal irritation.

IF IN EYES: direct contact may be irritating to the eye, which may be transient.

IF ON SKIN: may cause mild skin irritation.

IF INHALED: No effect anticipated.

Supporting Data

Acute Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000 Oral

mg/kg. Data considered includes: zinc sulphate 926mg/kg (mouse).

No evidence of dermal toxicity. Dermal Inhaled No evidence of inhalation toxicity.

Eve The mixture is not considered to be an eye irritant. The mixture is considered to be a mild skin irritant. Skin

Chronic Sensitisation The mixture is considered to be a respiratory sensitizer. Enzymes (Rennin) present in this

mixture may cause allergic reaction.

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen. Carcinogenicity No ingredient present at concentrations > 0.1% is considered a carcinogen. No ingredient present at concentrations >0.1% is considered a

Reproductive /

Developmental reproductive/developmental toxicant.

Systemic No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions

Ecological Data

Summary

This mixture may affect aquatic organisms.

Supporting Data

Using EC50's for ingredients, the calculated EC50 for the mixture is between 1 mg/L and Aquatic

100 mg/L. Data considered includes: zinc sulphate 98.77µg/L (96hr, Oncorhynchus mykiss), 0.09877mg/L (48hr, Daphnia hyalina), 0.02469mg/L (5d, Ditylum brightwellii

Diatom).

Bioaccumulation No data Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate See acute toxicity.

Ni evidence of toxicity towards terrestrial invertebrates. Terrestrial invertebrate

Biocidal

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, resource consent and

state disposal conditions may apply, including requirements of trade waste consents.

Disposal method In New Zealand 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.

In Australia disposal of this product must comply with the requirements of state and local

disposal regulations.

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)NAPacking group:NAPrecautions:NAERG GuideNA

15. Regulatory Information

NZ regulations

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. 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

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 10000L is stored.

Certified handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 10000L is stored. Signage Required if > 10000L 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.



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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.

ACVM: exempt

Australian regulations

Standard for the Uniform Scheduling

of Drugs and Poisons (SUSDP) Applicable prohibitions and

notifications/licensing requirements

Agricultural and Veterinary

Chemicals Act

Listing in the Australian Inventory of

Chemical Substances (AICS)

Not scheduled

Not listed

Not listed

(Soluble cobalt (II) and salts) - IMAP - Tier II - Human Health

Copper glycinate - listed AICS

1,2-Ethanediamine, dihydriodide – listed AICS

Magnesium sulfate, heptahydrate - IMAP - Tier I - Human Health Manganous sulfate, monohydrate - IMAP - Tier II - Human Health

Selenic acid, (H2SeO4), disodium salt - listed AICS (Soluble zinc salts) - IMAP - Tier II - Human Health

Vitamin A - listed AICS

Vitamin E - IMAP - Tier I - Human Health

Vitamin D3 - listed AICS

Additional information Not applicable

16. Other Information

Abbreviations

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

2020 Controls, EPA. www.epa.govt.nz **AICS** Australian Inventory of Chemical Substances **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)

Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised **GHS**

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).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population LC₅₀

(usually rats)

NZIoC New Zealand Inventory of Chemicals

Short Term Exposure Limit - The maximum airborne concentration of a chemical or STEL

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 STOT SE System Target Organ Toxicity - Single Exposure

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

(usually 8 hours)

UEL **Upper Explosive Limit** United Nations Number **UN 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 Data

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

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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.

ES Workplace Exposure standards for airborne contaminants – Safework Australia.

Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

Review

DateReason May 2019wJune 2019Not applicable – new SDS

July 2023 HSNO to GHS 7, new address and logo

May 2024 New address

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.

