

# SAFETY DATA SHEET



Revision date: 25-Jul-2025

Revision Number 1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product identifier

**Product Name** REVIVE B12

**Product Code(s)** 43738 (100L drum)  
43737 (20L drum)  
43736 (20L carton – 4x5L pouches)  
43735 (5L drench pack)

### Other means of identification

**CAS No.** Mixture

### Recommended use of the chemical and restrictions on use

**Recommended use** Drench / Animal food additive.

**Uses advised against** No information available.

### Details of the supplier of the safety data sheet

#### Supplier

Vitapower Limited  
NZBN: 9429036796083  
Address: 120 Pukiti Drive, PO Box 448, Wanganui, 4540 New Zealand

Telephone Number: +64 6 349 1005

### For further information, please contact

**Contact Point** info@vitapower.co.nz

### Emergency telephone number

**Emergency Telephone** 0800 848 276 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

### GHS Classification

#### **SIGNAL WORD**

WARNING

Animal Nutritional and Animal Care Products Group Standard 2020

Approval Number: HSR002521

|                                          |            |
|------------------------------------------|------------|
| <b>Serious eye damage/eye irritation</b> | Category 2 |
|------------------------------------------|------------|

**Label elements****Hazard statements**

H319 Causes serious eye irritation

**Precautionary Statements - Prevention**

P264 Wash eyes thoroughly after handling.

P280 Wear protective gloves / protective clothing / eye protection / face protection

**Precautionary Statements - Response**

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

**Precautionary Statements - Storage**

P405 Store locked up

**Precautionary Statements - Disposal**

P501 Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Other hazards which do not result in classification****3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

| Chemical name                                    | CAS No.    | Weight-% |
|--------------------------------------------------|------------|----------|
| Calcium Chloride                                 | 10043-52-4 | <10%     |
| Other ingredients determined not to be hazardous | -          | Balance  |

## 4. FIRST AID MEASURES

### Description of first aid measures

|                                           |                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | For advice, contact a Poisons Information Centre or a doctor.                                                                                                                                                                                                                                                                                        |
| <b>Emergency telephone number</b>         | Poisons Information Center, New Zealand: 0800 764 766                                                                                                                                                                                                                                                                                                |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Give artificial respiration if victim is not breathing. Get medical attention immediately if symptoms occur.                                                                                                                                                 |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.                                                                  |
| <b>Skin contact</b>                       | Wash off immediately with warm soapy water for at least 15 minutes. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash it before reuse.                                                                                                                                                              |
| <b>Ingestion</b>                          | Clean mouth with water and drink plenty of water afterwards. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, lean patient forward or place on left side to maintain an open airway and prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur. |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes, and clothing. Wear personal protective clothing (see section 8).                                                                                                                                                                                                                                                      |

### Most important symptoms and effects, both acute and delayed

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| <b>Symptoms</b> | Irritation. May cause redness and tearing of the eyes. |
|-----------------|--------------------------------------------------------|

### Indication of any immediate medical attention and special treatment needed

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE FIGHTING MEASURES

### Special firefighting instructions

|                                                       |                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                   | Dry chemical, CO <sub>2</sub> , water spray or regular foam. Do not use water jet.                                                 |
| <b>Unsuitable extinguishing media</b>                 | No information available.                                                                                                          |
| <b>Specific hazards arising from the chemical</b>     | Combustible. May burn but does not ignite readily.                                                                                 |
| <b>Hazardous products of combustion</b>               | Fire may produce irritating or toxic gases including Carbon oxides, Nitrogen oxides and metal oxides                               |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

### Personal precautions, protective equipment and emergency procedures

|                                 |                                                                                                                                                                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>     | Avoid contact with skin and eyes. Ensure adequate ventilation. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Wash thoroughly after handling. |
| <b>Other information</b>        | Refer to protective measures listed in Sections 7 and 8.                                                                                                                                                                                                                                  |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.                                                                                                                                                                                                                                         |

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into drains and waterways.

**Methods and material for containment and cleaning up**

**Methods for containment** Spill or leak should be isolated immediately. Keep unauthorised personnel away. Prevent further leakage or spillage if safe to do so. Contain run-off from fire control or dilution water – run-off may cause pollution.

**Methods for cleaning up** Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.

**Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Ventilate spillage area. Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Obtain special instructions before use. Ensure adequate ventilation. Use personal protection equipment. Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Wear protective gloves / protective clothing / eye protection / face protection and suitable respirator (see Section 8).

**General hygiene considerations** Avoid contact with eyes. Wash eyes and hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place, out of direct sunlight. Protect from moisture. Keep container closed when not in use. Keep in original container. Keep away from heat and sources of ignition. No smoking. Keep away from incompatible materials. Store locked up. Store at 10 - 25°C

**Incompatible materials** Strong acids, borane/boron oxide, zinc, calcium oxide, methyl vinyl ether, strong oxidizing agents. Water.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

**Exposure Limits** No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority.

**Appropriate engineering controls**

**Engineering controls** Apply technical measures to comply with the occupational exposure limits. Handle in a fully enclosed system and equipment. If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

**Individual protection measures, such as personal protective equipment**

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES



|                                        |                                                                           |
|----------------------------------------|---------------------------------------------------------------------------|
| <b>Eye/face protection</b>             | Safety/chemical goggles.                                                  |
| <b>Hand protection</b>                 | Handle with impervious gloves.                                            |
| <b>Skin and body protection</b>        | Wear suitable protective clothing to avoid skin contact. Boots. Overalls. |
| <b>Respiratory protection</b>          | Not stated                                                                |
| <b>Environmental exposure controls</b> | No information available.                                                 |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                        |                              |
|------------------------|------------------------------|
| <b>Physical state</b>  | Liquid                       |
| <b>Appearance</b>      | Smooth and slick oily liquid |
| <b>Colour</b>          | Pale tan or light caramel    |
| <b>Odour</b>           | Mild garlic                  |
| <b>Odour threshold</b> | No information available.    |

| <u>Property</u>                       | <u>Values</u>     | <u>Remarks • Method</u> |
|---------------------------------------|-------------------|-------------------------|
| <b>pH</b>                             | 3.5               | None known              |
| <b>Melting point / freezing point</b> | No data available | None known              |
| <b>Boiling point / boiling range</b>  | No data available | None known              |
| <b>Flash point</b>                    | Not applicable    | None known              |
| <b>Evaporation rate</b>               | No data available | None known              |

|                                        |                   |            |
|----------------------------------------|-------------------|------------|
| Upper flammability or explosive limits | No data available | None known |
| Lower flammability or explosive limits | No data available | None known |
| Vapor pressure                         | No data available | None known |
| Vapor density                          | No data available | None known |
| Relative density                       | 0.96kg/L          |            |
| Water solubility                       | Slightly soluble  | None known |
| Solubility(ies)                        | No data available | None known |
| Partition coefficient                  | No data available | None known |
| Autoignition temperature               | No data available | None known |
| Decomposition temperature              | No data available | None known |
| Kinematic viscosity                    | No data available | None known |
| Dynamic viscosity                      | No data available |            |

Other information**10. STABILITY AND REACTIVITY**Reactivity

**Reactivity** Hydrophobic – forms a distinct layer on top of water and repels water-based substances.

Chemical stability

**Stability** Stable under recommended storage conditions.

Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

Conditions to avoid

**Conditions to avoid** Moisture. Avoid excessive heat and sunlight.

Incompatible materials

**Incompatible materials** Strong acids, borane/boron oxide, zinc, calcium oxide, methyl vinyl ether, strong oxidizing agents. Water.

Hazardous decomposition products

**Hazardous decomposition products** Calcium oxide. Hydrogen chloride. Carbon oxides. Nitrogen oxides. Metal oxides.

**11. TOXICOLOGICAL INFORMATION**Acute toxicityInformation on likely routes of exposure

**Product Information** No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:

**Inhalation** May be harmful if inhaled.

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| <b>Eye contact</b>  | Causes serious eye irritation.                         |
| <b>Skin contact</b> | May cause skin irritation.                             |
| <b>Ingestion</b>    | May be harmful if swallowed.                           |
| <b>Symptoms</b>     | Irritation. May cause redness and tearing of the eyes. |

**Acute toxicity****Numerical measures of toxicity**

| Chemical name    | Oral LD50          | Dermal LD50           | Inhalation LC50 |
|------------------|--------------------|-----------------------|-----------------|
| Calcium chloride | > 1000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | -               |

See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                                                                    |
|------------------------------------------|--------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.                                            |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation.                                     |
| <b>Respiratory or skin sensitization</b> | No information available.                                          |
| <b>Germ cell mutagenicity</b>            | No information available.                                          |
| <b>Carcinogenicity</b>                   | No information available.                                          |
| <b>Reproductive toxicity</b>             | No information available.                                          |
| <b>STOT - single exposure</b>            | May cause respiratory irritation.                                  |
| <b>STOT - repeated exposure</b>          | May cause damage to organs through prolonged or repeated exposure. |
| <b>Aspiration hazard</b>                 | No information available.                                          |

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

|                                |                                    |
|--------------------------------|------------------------------------|
| <b>Ecotoxicity</b>             | Keep out of waterways.             |
| <b>Terrestrial ecotoxicity</b> | There is no data for this product. |

| Chemical name    | Algae/aquatic plants | Fish                                        | Crustacea                                        |
|------------------|----------------------|---------------------------------------------|--------------------------------------------------|
| Calcium chloride | -                    | LC50: =10650mg/L (96h, Lepomis macrochirus) | LC50: 2280000 - 3948000µg/L (48h, Daphnia magna) |

**Persistence and degradability**

|                              |                           |
|------------------------------|---------------------------|
| <b>Mobility</b>              | No information available. |
| <b>Bioaccumulation</b>       | No information available. |
| <b>Other adverse effects</b> | No information available. |

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste from residues/unused products</b> | Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste. |
| <b>Contaminated packaging</b>              | Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                                                                                                                                                                                                                         |

### 14. TRANSPORT INFORMATION

|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>ROAD AND RAIL TRANSPORT</u></b> | Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.                                                                   |
| <b><u>IATA</u></b>                    | Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS. |
| <b><u>IMDG</u></b>                    | Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.                    |

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

|                             |                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>New Zealand</b>          | HSR002521 Animal Nutritional and Animal Care Products Group Standard 2020                                                                              |
| <b>National regulations</b> | See section 8 for national exposure control parameters<br>The Agricultural Compounds and Veterinary Medicines Act 1997 is applicable to this substance |

#### International Inventories

|                      |                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------|
| <b>NZIoC</b>         | The components of this product are listed on the New Zealand Inventory of Chemicals.           |
| <b>TSCA</b>          | Not determined. Contact supplier for inventory compliance status.                              |
| <b>DSL/NDL</b>       | Not determined. Contact supplier for inventory compliance status.                              |
| <b>EINECS/ELINCS</b> | Not determined. Contact supplier for inventory compliance status.                              |
| <b>ENCS</b>          | Not determined. Contact supplier for inventory compliance status.                              |
| <b>IECSC</b>         | Not determined. Contact supplier for inventory compliance status.                              |
| <b>KECL</b>          | Not determined. Contact supplier for inventory compliance status.                              |
| <b>PICCS</b>         | Not determined. Contact supplier for inventory compliance status.                              |
| <b>AIIC</b>          | The components of this product are listed on the Australian Inventory of Industrial Chemicals. |

#### **Legend:**

**NZIoC** - New Zealand Inventory of Chemicals  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances



**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Industrial Chemicals

### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## 16. OTHER INFORMATION

Supplier Safety Data Sheet 06/ 2025

**Prepared By** This Safety Data Sheet has been prepared on behalf of Vitapower Limited

**Issuing Date:** 20-Jul-2025

**Reason(s) For Issue:** Initial / Primary SDS  
Determination of Hazardous Chemical Classification

### **Revision Note:**

None

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

**Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Vitapower Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Vitapower representative or Vitapower Limited at the contact details on page 1.

Vitapower Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

**End of Safety Data Sheet**