



# MATERIAL SAFETY DATA SHEET

## Calf Oral Electrolyte Replacer

Issue date: February 2021    Review date: February 2026

### **SECTION 1: SUBSTANCE IDENTIFICATION AND SUPPLIER**

Product name: Calf Oral Electrolyte Replacer  
 Recommended Use: Animal Feed Supplement - Vitamin  
 Product Code: A9905  
 Company identification Address:  
 Nutritech International  
 6 Aintree Avenue, Airport Oaks, Mangere, Auckland  
 Distributor address:  
 AHD Ltd 1229 Maraekakaho Road  
 Hastings 4175  
 New Zealand  
 Phone (06) 873 3611  
 Poisons Information Centre: 0800-764-766  
 Transport Emergency 111 Fire and police

### **SECTION 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.

2.1 **Hazard class:** 6.3B, 6.4A

**Hazard Statements:** H316 – Causes mild skin irritation.  
 H319 – Causes serious eye irritation.

2.2 **Symbols – WARNING**



#### **GHS 7 Classification – 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:** Eye irrit cat 2    **Hazard Statements:** H319 – Causes serious eye irritation.

**PRECAUTIONARY STATEMENTS**

P103 – Read label before use

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection.

P332+P313 – If skin irritation occurs: Get medical advice/attention.

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.

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

**SECTION 3: COMPOSITION INFORMATION**

<b>Component</b>	<b>CAS/Identification</b>	<b>Conc (%)</b>
Potassium Sulphate	7778-80-5	
Sodium Chloride	7647-14-5	10-30%
Ingredients not contribution to HSNO Classes		

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

**SECTION 4: EMERGENCY FIRST AID PROCEDURES**

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 poisoned, burned 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**

<b>Swallowed</b>	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. Contact a doctor if experiencing any symptoms.
<b>Eye contact</b>	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.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminate clothing and wash before re-use.
<b>Inhalation:</b>	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

**SECTION 5: FIRE FIGHTING MEASURES**

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is non-flammable.

**Suitable extinguishing substances:** 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:** NA

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Containment Emergency procedures:** In all cases design storage to prevent discharge to storm water. 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.

**Precautions:** No special protective clothing is normally necessary.

**SECTION 7: STORAGE & HANDLING**

**Storage:** Avoid storage of harmful substances with food. Avoid contact with incompatible substances as listed in Section 10.

**Handling:** Keep exposure to a minimum, and minimize the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

**SECTION 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/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

<b>NZ Workplace Exposure Stds</b>	<b>Ingredient</b>	<b>WES-TWA*</b>	<b>WES-STEL</b>
	No ingredient 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**

- 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** If discomfort is felt (eg; if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use.
- 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/NS1715. Use a 'ENTER RESPIRATOR TYPE'. 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

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

<b>Appearance</b>	powder
<b>Odour</b>	not specified
<b>pH</b>	not specified
<b>Vapour pressure</b>	no data
<b>Viscosity</b>	no data
<b>Boiling point</b>	no data
<b>Volatile materials</b>	no data
<b>Freezing/melting point</b>	no data
<b>Solubility</b>	soluble in water
<b>Specific gravity / density</b>	~ 1.2
<b>Flash point</b>	no data
<b>Danger of explosion</b>	no data
<b>Auto-ignition temperature</b>	non flammable
<b>Upper &amp; lower flammable limits</b>	non flammable
<b>Corrosiveness</b>	non corrosive

**SECTION 10. STABILITY & REACTIVITY**

<b>Stability:</b>	Stable
<b>Conditions to be avoided:</b>	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
<b>Incompatible groups</b>	Strong acids and bases. Oxidising agents
<b>Substance Specific Incompatibility</b>	none known
<b>Hazardous Decomposition Products</b>	None
<b>Hazard reactions</b>	non known

**SECTION 11. TOXICOLOGICAL INFORMATION****Summary**

IF SWALLOWED: may cause gastrointestinal irritation

IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause skin irritation.

**Supporting Data**

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >5,000 mg/kg. Data considered includes: Potassium Sulphate 6600mg/kg (rat), Sodium chloride: 3000mg/kg (rat)
	<b>Dermal</b>	No evidence of dermal toxicity.
	<b>Inhaled</b>	No evidence of inhalation toxicity.
	<b>Eye</b>	The mixture is considered to be an eye irritant, because some of the ingredients (sodium chloride) present are considered eye irritants in more concentrated form.
	<b>Skin</b>	The mixture is considered to be a skin irritant, because some of the ingredients (potassium sulphate) present are considered skin irritants in more concentrated form.
<b>Chronic</b>	<b>Sensitisation</b>	No ingredient present at concentrations >0.1% is considered a sensitizer.
	<b>Mutagenicity</b>	No ingredient present at concentrations >0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations >0.1% is considered a carcinogen.
	<b>Reproductive/ Developmental</b>	No ingredient present at concentrations >0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	<b>Systemic</b>	No ingredient present at concentrations >1% is considered a target organ toxicant.
	<b>Aggravation of existing conditions</b>	None known.

**SECTION 12. ECOLOGICAL DATA****Summary**

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

**Supporting Data**

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is > 100 mg/L.
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	No data
<b>Soil</b>	No evidence of soil toxicity.
<b>Terrestrial vertebrate</b>	See acute toxicity.
<b>Terrestrial invertebrate</b>	No evidence of ecotoxicity towards terrestrial invertebrates.
<b>Biocidal</b>	No data
<b>Environmental effect levels</b>	No EELs are available for this mixture or ingredients.

**SECTION 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.

## **SECTION 14. TRANSPORT INFORMATION**

### **Land Transport Rule: Dangerous Goods 2005 – NZS 5433:2007**

There are no specific restrictions for this product (not a dangerous good).

<b>UN number:</b>	NA	<b>Proper shipping name:</b>	NA
<b>Class(es)</b>	NA	<b>Packaging group:</b>	NA
<b>Precautions:</b>	NA	<b>Hazchem code:</b>	NA

## **SECTION 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 2017/2020. 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 Hazard 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.

**SECTION 16. OTHER INFORMATION****Abbreviations**

<b>Approval Code</b>	Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard 2020 Controls, EPA <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>EC50</b>	Ecotoxic Concentration 50% - concentrations in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>GHS</b>	Globally Harmonised System of Classification and Labelling of Chemicals
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and new Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL/UEL</b>	Lower Explosive Limit/ Upper Explosive Limit
<b>LD50</b>	Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats).
<b>LC50</b>	Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats).
<b>MSDS (SDS)</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>NZIoC</b>	New Zealand Inventory of Chemicals
<b>STEL</b>	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.
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UN Number</b>	United Nations Number
<b>WES</b>	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**

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>Controls</b>	EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a>
<b>WES</b>	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their website – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

**Review**

<b>Date</b>	<b>Reason for review</b>
February 2021	Not applicable – new SDS

**DISCLAIMER**

*The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.*