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Version 1.1

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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Identifier

Product Name	Enerlect
Other Names	None
Proper Shipping Name	Enerlect
Other means of Identification	None

Relevant identified uses of the substance or mixture

Relevant identified uses	An electrolyte replacement and energy source for the treatment of neo-natal scours in calves.

Details of the supplier of the safety data sheet

Registered company name	Vetpak Limited
Address	249 Bruce Berquist Dr, Te Awamutu 3800.
Telephone	(07) 870 2024
Website	www.vetpak.co.nz
Email	sales@vetpak.co.nz

Emergency telephone numbers

Association/ Organisation	New Zealand National Poison information centre
Emergency telephone number	0800 764 766 (07) 870 2024 Vetpak. 8.00am to 5.00pm Monday to Friday except public holidays.
Other emergency telephone numbers	New Zealand emergency services 111

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:

This product is NOT hazardous according to the criteria of the Globally Harmonised System of classification and labelling of chemicals (GHS)

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

CAS Number	% (weight)	Name
50 – 99 – 7	> 60 %	Dextrose Anhydrous
7647 – 14 – 5	< 10 %	Sodium Chloride
144 – 55 – 8	< 10 %	Sodium Bicarbonate
6100 – 05 – 6	< 10 %	Potassium Citrate Monohydrate
56 – 40 – 6	< 10 %	Glycerin
	< 10 %	Non Hazardous Colouring agent

	< 10 %	Non Hazardous Glidant

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

Eye contact	➢ Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. ➢ Remove contact lenses if present and easy to do. ➢ If eye irritation persists, get medical advice/attention.
Skin contact	➢ Wash with plenty of soap and water. ➢ Take off contaminated clothing and wash it before reuse. ➢ If skin irritation occurs, get medical advice/attention.
Inhalation	➢ Remove victim to fresh air and keep at rest in a position comfortable for breathing. ➢ If respiratory symptoms persist, get medical advice/attention.
Ingestion	➢ Rinse mouth with a glass of water. Do not induce vomiting. Get medical advice/attention if you feel unwell. ➢ Never give anything by mouth to an unconscious person.
Advice to the doctor	Treat symptomatically and supportively. Most important symptoms and effects, both acute and delayed: None known.

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media	➢ Use dry chemical, Carbon dioxide (CO2) ➢ Alcohol-resistant foam or water spray for extinction ➢ Water spray or jets

Flammability Conditions	➢ Non Hazardous

Advice for fire fighters

Fire fighting	➢ Alert fire brigade and tell location and nature of hazard ➢ Wear breathing apparatus plus protective gloves in the event of a fire ➢ Prevent spillage from entering the waterways or drains ➢ Fight the fire from a safe distance and adequate cover
Fire/explosion hazard	➢ Not flammable
Flammability Conditions	➢ Non-combustible. This product will not burn.
Hazardous Products of Combustion	➢ No hazards from combustion
Special fire fighting hazards	➢ Contain waste runoff from fire control or dilution water
Protection Equipment	➢ Wear positive pressure self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firelighter's uniform may provide limited protection.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Response Procedure	➢ Ensure adequate ventilation. ➢ Do not touch or walk through spilled material ➢ Avoid dust formation. ➢ Avoid breathing dust and contact with eyes, skin and clothing

Clean Up Procedures	➢ Collect material (sweep up or vacuum) and place into suitable, labelled containers for subsequent recycling or disposal.
Containment	➢ Stop leak if you can do it without risk. ➢ Prevent entry into waterways, sewers, basements or confined areas. ➢ Cover powder spill with plastic sheet or tarp to minimize spreading
Decontamination	➢ Wash surfaces thoroughly with detergent and water.
Environment Precautionary Measures	➢ Prevent entry into drains and waterways.
Personal Precautionary Measures	➢ Use personal protective equipment as required

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Safe Handling	➢ Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. ➢ Ensure adequate ventilation. ➢ Handle in accordance with good industrial hygiene and safety practice. Avoid generating dust and prevent the build-up of dust in the work atmosphere. ➢ Avoid breathing dust and contact with eyes, skin and clothing. ➢ Do not ingest. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Suitable container	➢ Keep in the original container
Storage	➢ Store in a cool, dry and well-ventilated place, out of direct sunlight. ➢ Keep containers tightly closed. ➢ Protect against physical damage. ➢ Protect from moisture.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards: New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

Exposure controls

Appropriate engineering controls	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
Personal protection	
Eye and face protection	➢ Safety glasses with side shields ➢ Contact lenses may pose a special hazard soft contact lenses may absorb and concentrate materials. ➢ Medical personal should be trained and readily available in the event of chemical

	exposure; they should begin eye irrigation and remove contact lenses as soon as practicable. Lenses should be removed at the first sign of eye irritation
Skin protection	Wear general protective gloves e.g. light weight rubber gloves
Hand / feet protection	As above for hands; wear appropriate footwear for the environment
Other protection	➢ Overalls ➢ PVC Aprons ➢ PVC protective gear ➢ Eyewash facilities ➢ Ensure there is ready access to a safety shower

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Off white powder	Relative density (Water = 1)	Not available
Odour	Odourless	Auto ignition temperature	Not available
Odour threshold	Not available	Decomposition temperature	Not available
pH	Not available	Viscosity	Not available
Melting point (^{o}C)	Not available	Molecular weight (g/mol)	Not available
Boiling point (^{o}C)	Not available	Bulk Density	Not available
Flash point (^{o}C)	Not available	Specific Gravity	Not available
Evaporation rate	Not available	Oxidising properties	Not available
Flammability	Not flammable	Volatile component (% vol)	None

SECTION 10 – STABILITY AND REACTIVITY

General Information	Hazardous reactions will not occur under normal circumstances
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid dust formation. Avoid exposure to moisture or moist air. To avoid thermal decomposition, do not overheat.
Incompatible materials	None know
Hazardous Decomposition Products	Produces carbon monoxide and carbon dioxide when heated to decomposition
Hazardous Polymerisation	Hazardous polymerisation will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

General Information	Acute toxicity Glucose (Oral): - LD50, Rat: 28.8 g/kg
Ingestion	May cause nausea, vomiting and abdominal pain if ingested
Inhalation	Prolonged inhalation of dust may cause respiratory irritation
Eyes	Contact may cause irritation due to mechanical abrasion
Skin	Large amounts of dust may cause mechanical irritation or drying of the skin
Carcinogen	Not applicable
Mutagen	Not applicable
Reproductive Toxicity	Not applicable
Aspiration	Not applicable

SECTION 12 – ECOLOGICAL INFORMATION

This product is not hazardous to the environment.

Ecotoxicity	Aquatic toxicity: - No data is available for this product.
Persistence/Degradability	This product is biodegradable
Bioaccumulation Potential	Does not bioaccumulate
Other adverse effects	Avoid washing excessive amounts into streams and waterways. Avoid unintended release into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	➢ Do not allow wash water from cleaning or process equipment to enter drains ➢ It may be necessary to collect all wash water for treatment before disposal ➢ In all case disposal to sewer may be subject to local laws and regulations and these should be considered first ➢ If in doubt contact the responsible authority ➢ Contact manufacturer for recycling options or consult local or regional waste management authority for disposal

SECTION 14 – TRANSPORT INFORMATION

Labels required

This product is NOT classified as a Dangerous Good for transport in NZ - NZS 5433:2012

Marine Pollutant	NO
HAZCHEM	Not Hazardous

Land transport (ADG)

UN Number	No data available
Packing group	No data available
UN proper shipping name	No data available
Environmental hazard	Not Hazardous
Transport hazard classes	No data available
Special precautions for user	No data available

Air transport (ICAO-IATA / DGR)

UN Number	No data available
Packing group	No data available
UN proper shipping name	No data available
Environmental hazard	Not Hazardous
Transport hazard classes	No data available
Special precautions for user	No data available

Sea transport (IMDG / GGVSee)

UN Number	No data available
Packing group	No data available
UN proper shipping name	No data available
Environmental hazard	Not Hazardous

Transport hazard classes	No data available
Special precautions for user	No data available
Marine Pollutant	No data available

SECTION 15 – REGULATORY INFORMATION

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

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

GHS Code	None
Australia – AICS	Yes
Europe – EINEC / ELINCS / NLP	Yes
New Zealand – NZIoC	Yes - All ingredients are on the inventory
Environmental Protection Authority (New Zealand)	Hazardous Substances and New Organisms Amendment Act 2015
Approval Code	Not Hazardous

SECTION 16 – OTHER INFORMATION

While Vetpak Limited in good faith has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Vetpak Limited accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

New Zealand National Poison Information Centre: 0800 764 766
New Zealand Emergency Services: 111
Vetpak Limited: +64 7 870 2024

Definitions and abbreviations

PC – TWA	Permissible concentration – time weighted average
PC – STEL	Permissible concentration – short term exposure limit
IARC	International agency for research on cancer
ACGIH	American conference of Government Industrial Hygiene
STEL	Short term exposure limit
TEEL	Temporary emergency exposure limit
IDLH	Immediate dangerous to life or health concentration
OSF	Odour safety factor
NOAEL	No observed adverse effect level
LOAEL	Lowest observed adverse effect level
TLV	Threshold limit value
LOD	Limit of detection
OTV	Odour threshold value
BCF	BioConcentration factors

END OF SDS