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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	Keto - Aid
Other Names	None
Proper Shipping Name	None
Other means of Identification	None

Relevant identified uses of the substance or mixture

Relevant identified uses	An oral energy supplement for dairy cows, cattle and sheep

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
57 – 55 – 6	> 60 %	Monopropylene Glycol
67 – 48 – 1	< 10 %	Choline Chloride
10026 – 24 – 1	< 10 %	Cobalt Sulphate
5700 – 49 – 2	< 10 %	Ethylenediamine dihydroiodide (EDDI)
68439 – 50 – 9	< 10 %	C12-14, ethoxylated Alcohols
2611 – 82 – 7	< 10 %	Ponceau Red Dye
7732 – 18 – 5	To 100 %	Water

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, then drink 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 fire media suitable for the surrounding area ➢ Water spray ➢ Fog ➢ Alcohol resistant foam ➢ Carbon dioxide ➢ Dry powder

Flammability Conditions	➢ Non flammable or combustible

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 ➢ Consider evacuation (or protect in place) ➢ Fight the fire from a safe distance and adequate cover
Special fire fighting hazards	➢ Contain runoff from fire control or dilution water - Runoff may pollute waterways.
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

Minor spills	➢ Clean up spills immediately ➢ Avoid contact with skin and eyes ➢ Contain and absorb small quantities with absorbent material
Major spills	➢ Alert fire brigade and tell them location and nature of hazard ➢ Prevent spillage from entering the waterways or drains ➢ Consider evacuation (or protect in place) ➢ Increase ventilation

Clean Up Procedures	➢ Recover large spills for salvage or disposal. Pick up spills/residues with sand or other non-combustible absorbent material and place into containers for later disposal. Never return spills into original containers for re-use.
Containment	➢ Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Dike far ahead of large spill for later disposal if necessary.
Decontamination	➢ Clean surface thoroughly to remove residual contamination. Wash hard surfaces with detergent to remove remaining film.
Environment Precaution Measures	➢ Prevent entry into drains and waterways. ➢ Dispose of any absorbent material properly according to local authority regulations

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 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 incompatibility	➢ Store in a cool, dry and well-ventilated place ➢ Keep container tightly closed when not in use - check regularly for leaks. ➢ Protect against physical damage.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General	None

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 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 ➢ Chemical goggles ➢ 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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Red viscous liquid	Relative density (Water = 1)	Not available
Odour	Ketone	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)	100 ^{o}C	Taste	Not available
Solubility	Soluble in water	Oxidising properties	Not available
Flammability	Not flammable	Volatile component (% vol)	None

SECTION 10 – STABILITY AND REACTIVITY

General Information	Stable under normal conditions of use
Chemical stability	Stable under normal conditions of use.
Conditions to avoid	None
Incompatible materials	None
Hazardous Polymerisation	Hazardous polymerisation will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

General Information	Acute Effects: Choline Chloride Oral [Rat] LD50 10 mg/m3 Cobalt Sulphate Oral [Rat] LD50 582 mg/kg Monopropylene Glycol Oral [Rat] LD50 474 mg/m3 Ethylenediamine dihydroiodide Oral [Rat] LD50 25 mg/m3
Ingestion	May cause irritation of the digestive tract
Skin	May cause skin irritation
Eyes	Contact can cause eye irritation
Inhalation	May cause respiratory irritation. Consult a physician if symptoms persist.
Chronic Effects	Not known
Irritation/Corrosion	Skin allergy and irritation
Carcinogenic Effects	Suspected carcinogen (Cobalt sulphate)
Mutagenic Effects	Not suspected of causing genetic defects
Reproductive or Developmental Effects	Not known

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be harmful to aquatic organisms.

Persistence/Degradability	No information available
Bioaccumulation Potential	No information available
Environmental Impact	No information available

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

Marine Pollutant	No
HAZCHEM	Not classified as hazardous

Land transport (ADG) - Air transport (ICAO-IATA / DGR) - Sea transport (IMDG / GGVSee)

UN Number	No data available
Packing group	lll
UN proper shipping name	No data available
Environmental hazard	No data available
Transport hazard classes	No data available
Special precautions for user	Transport upright in the original container with the lid tightly closed. Avoid spillage and any release into the environment

Transport in bulk according to Annex II of Marpol and the IBC Code - Not applicable

SECTION 15 – REGULATORY INFORMATION

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

GHS Codes	None
National Inventory	Status - Approved
Australia – AICS	Yes
Europe – EINEC / ELINCS / NLP	Yes
New Zealand – NZIoC	Yes - All ingredients are on the inventory
Environmental Protection Authority (New Zealand)	Class determination by the Agricultural and Veterinary Medicines Group on the MPI food register, as an oral nutritional feed supplement.
Approval Code	Non 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