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Version 1.1
Issue date 12/10/2024

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

Product Identifier

Product Name	Healthy Ewe – Liquid RTU
Other Names	None
Proper Shipping Name	Not available
Other means of Identification	None

Relevant identified uses of the substance or mixture

Relevant identified uses	For the oral vitamin / mineral supplementation of sheep

Details of the supplier of the safety data sheet

Registered company name	Vetpak Limited
Address	269 Bruce Berquist Drive, Te Awamutu
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 – Poisons Hotline (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:

Hazardous according to the criteria of the Globally Harmonised System of classification and labelling of chemicals (GHS)

Label pictograms

GHS label elements	
Signal Word	WARNING

Hazard statements

HSNO	Hazard Code	GHS Category	Hazard Statement
6.1E	H 303, H 313, H 333	Category 1	Maybe harmful if swallowed, in contact with skin, if inhaled
6.3A	H 315	Category 2	Causes skin irritation
6.4A	H 319	Category 2	Causes serious eye irritation

6.5B	H 317	Category 1	May cause an allergic skin reaction
6.7B	H 351	Category 2	Suspected of causing cancer
6.8B	H 361	Category 2	Suspected of damaging fertility or the unborn child
6.9B	H 371	Category 2	May cause damage to organs
9.1A	H 410	Category 1	Very toxic to aquatic life with long lasting effects.
9.3C	H 433	Category 1	Harmful to terrestrial vertebrates.

Precautionary statements prevention

P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands and clothing thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/ face protection
P281	Use personal protective equipment as required.

Precautionary statement responses

P101	If medical advice is needed, have product container or label at hand.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P313	IF exposed or concerned: 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	In case of getting on your skin wash with plenty of soap and water
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

Precautionary statement storage

P405	Store locked up

Precautionary statement disposal

P501	Disposal should be through a suitably qualified contractor following the EPA guidelines

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

CAS Number	% (weight)	Name
50 – 81 – 7	10 – 30%	Vitamin C
7553 – 56 – 2	10 – 30%	Iodine
10026 – 24 – 1	< 10%	Cobalt
7446 – 20 – 0	< 10%	Zinc
13410 – 01 – 0	< 10%	Selenium
127 – 47 – 9	< 10%	Vitamin A
67 – 97 – 0	< 10%	Vitamin D
7695 – 91 – 2	< 10%	Vitamin E
7732 – 18 – 5	To 100%	Water

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

Eye contact	If this product comes in contact with eyes ➢ Flush out immediately with water for at least 15 minutes ➢ Ensure irrigation underneath the eyelids both upper lower lids ➢ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel ➢ Seek medical advice if irritation persists
Skin contact	If skin or hair contact occurs ➢ Wash skin and hair with running water (and soap if available) ➢ Remove contaminated clothing and launder before reuse ➢ Seek medical attention in event of irritation
Inhalation	➢ Remove patient from the area of exposure ➢ Get medical attention for any breathing difficulties
Ingestion	➢ Rinse mouth out with plenty of water. ➢ Never give anything by mouth to an unconscious person ➢ Seek medical attention immediately
Advice to the doctor	Show this safety data sheet (SDS) to the doctor in attendance. Treat symptomatically. Keep victim calm and warm. Contact National Poisons Centre

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media	➢ Use fire media suitable for the surrounding area ➢ Water spray ➢ Fog ➢ Alcohol resistant foam ➢ Carbon dioxide ➢ Dry powder

Special hazards arising from the substrate or mixture

Fire incompatibility	This product is non flammable

Advice for fire fighters

Fire fighting	➢ Alert fire brigade and tell location and nature of hazard ➢ Prevent spillage from entering the waterways or drains ➢ Fight the fire from a safe distance and adequate cover

	➢ Fire fighters should wear a positive pressure self contained breathing apparatus
Fire/explosion hazard	➢ This product is not flammable and non explosive

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor spills	➢ Clean up spills immediately ➢ Avoid contact with skin and eyes wear suitable gloves ➢ Contain and absorb small quantities with absorbent material ➢ Collect residue in a suitable waste container
Major spills	➢ Prevent spillage from entering the waterways or drains ➢ Consider evacuation (or protect in place) ➢ Collect residue in a suitable waste containers
Clean Up Procedures	➢ Clean preferable with detergent, do not use solvents ➢ Adhered or collected material should be promptly disposed of in accordance with appropriate laws and regulations
Containment	➢ Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Safe Handling	➢ Avoid all personal contact including inhalation ➢ Wear protective clothing when risk of exposure occurs ➢ Use in a well ventilated area ➢ Keep the containers closed
Other information	➢ Store away from other materials in a dry cool well ventilated area ➢ Protect containers from damage and check regularly for leaks ➢ Observe manufacturers storage and handling documentation advice

Conditions for safe storage, including any incompatibilities

Suitable container	➢ Packing as supplied by manufacturer ➢ Plastic containers may only used if approved by manufacturer ➢ Check containers are clearly labelled and free from leaks

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General	None

Exposure controls

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	Barrier creams and PVC, wear suitable rubber gloves. Wear safety footwear
Body protection	Overalls or PVC Aprons
Other protection	➢ No special equipment when handling small quantities ➢ Otherwise, overalls and wash units

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Brown Liquid	Relative density (Water = 1)	Not available
Odour	Iodine smell	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	Solubility	Water soluble
Flash point (^{o}C)	Not available	Explosive properties	Not available
Evaporation rate	Not available	Oxidising properties	Not available
Flammability	Not available	Volatile component (% vol)	None

SECTION 10 – STABILITY AND REACTIVITY

General Information	Stable under normal conditions
Chemical stability	Segregate from strong acids and alkalis. Segregate from acetaldehyde, ammonia, acetylene, aluminium and metals such as lithium, barium, magnesium, sodium, zinc, antimony and potassium.
Conditions to avoid	None
Hazardous decomposition	None known
Hazardous Polymerisation	Will not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

General Information	Acute Effects: Iodine Oral, [Rat] LD50 = 14 gm/kg Zinc Oxide Oral [Mouse] LD50 7950 mg/kg Cobalt Sulphate Oral [Rat] LD50 582 mg/kg
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	May cause damage to organs through prolonged or repeated exposure.
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	Very hazardous to the aquatic environment. Avoid release to waterways, sewers and storm water drains. 9.1A = Very toxic to aquatic organisms 9.3C = Harmful to terrestrial vertebrates
Ecotoxicity in Water	Cobalt: EC50 96hr 890mg/L Daphnia magna Iodine: EC50 96hr 0.55mg/L water flea Zinc Oxide: LC50 96hr 1.1mg/L Oncorhynchus mykiss Selenium: LC50 96hr 100mg/L Oncorhynchus mykiss
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	➢ Crush and dispose of in a landfill area in accordance with local government regulations ➢ If in doubt contact the responsible authority ➢ Contact manufacturer for recycling options or consult local or regional waste management authority for disposal ➢ Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste or wash waters

SECTION 14 – TRANSPORT INFORMATION

Labels required

Marine Pollutant	Yes
HAZCHEM	Environmentally hazardous

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

UN Number	No data available
Packing group	III
UN proper shipping name	No data available
Environmental hazard	Environmentally hazardous
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

SECTION 15 – REGULATORY INFORMATION

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

GHS Codes	6.1E, 6.3A, 6.4A, 6.5B, 6.7B, 6.8B, 6.9B, 9.1A, 9.3C
National Inventory	Status
Australia – AICS	Yes
Europe – EINEC / ELINCS / NLP	Yes
New Zealand – NZIoC	Yes - All ingredients are on the inventory
Environmental Protection Authority (New Zealand)	Not classified

Approval Code	None
Substance Triggers	Segregate from strong acids and alkalis. Segregate from acetaldehyde, ammonia, acetylene, aluminum and metals such as lithium, barium, magnesium, sodium, zinc, antimony and potassium.
Certified Handler	N/A

SECTION 16 – OTHER INFORMATION

While Infield Group 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, Infield Group 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	Bio concentration factors

END OF SDS