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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	Calcium 50
Other Names	Calcium carbonate, limestone
Proper Shipping Name	Lime supplement
Other means of Identification	None

Relevant identified uses of the substance or mixture

Relevant identified uses	A ready to use calcium supplement suitable for applying to hay, silage, other feed supplements or oral drenching.

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:

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	Category 2	May be harmful if swallowed.

6.4A	H 319	Category 2	Can cause eye irritation
9.1A	H 400	Category 1	Very toxic to aquatic life with long lasting effects.

Precautionary statements prevention

P102	Keep out of reach of children
P103	Read label before use
P264	Wash hands and clothing thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/ face protection

Precautionary statement responses

P101	If medical advice is needed have the product container or label on hand
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 skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage

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
471 – 34 – 1	30 - 60%	Calcium carbonate
50 – 70 – 4	< 10%	Sorbitol
57 – 55 – 6	< 10%	Monopropylene Glycol
11138 – 66 – 2	< 10%	Xanthan Gum
68439 – 50 – 9	< 10%	Chemidet 24 – 7N/90
24634 – 61 – 5	< 10%	Potassium Sorbate
84775 – 78 – 0	< 10%	Seaweed Flake
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 ➢ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel ➢ Continue rinsing for 15 minutes, if eye irritation persists seek medical attention
Skin contact	If skin or hair contact occurs ➢ Remove and isolate contaminated clothing and shoes ➢ Seek medical attention in event of irritation
Inhalation	➢ Remove victim to fresh air and keep warm ➢ Seek medical advice if symptoms persist

Ingestion	➢ Immediately give a glass of water to rinse mouth ➢ Never give anything by mouth to an unconscious person ➢ Seek medical attention if symptoms develop and persist
Advice to the doctor	Show this safety data sheet (SDS) to the doctor in attendance. Treat symptomatically. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media

- Alcohol stable foam
- Dry chemical powder
- Water spray or fog – large fires only

Special hazards arising from the substrate or mixture

Fire incompatibility	Not considered a flammable product

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/explosion hazard	➢ Not flammable ➢ Hazardous fumes may occur with decomposition

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor spills	➢ Clean up spills immediately ➢ Contain and absorb small quantities with absorbent material ➢ Collect residue in a suitable waste container
Major spills	➢ Clear area of personnel for safety ➢ Alert fire brigade and tell them location and nature of hazard ➢ Prevent spillage from entering the waterways or drains
Clean Up Procedures	➢ Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. 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	➢ Wear protective clothing when risk of exposure occurs ➢ When handling do not eat, drink or smoke
Other information	➢ Store containers in areas ➢ Store 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	➢ Use packing as supplied by manufacturer ➢ Plastic containers may only used if approved by manufacturer ➢ Check containers are clearly labelled and free from leaks
Storage incompatibility	➢ None

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level protection. The basic controls are: Process controls which involve changing the job activity or process to reduce risk Enclosure and or isolation source control keeping workers physically safe Ventilation that strategically adds and removes air in work environment. Ventilation can remove or dilute an air contaminant if designed properly
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
Body protection	Overalls or PVC Aprons
Other protection	➢ Overalls ➢ PVC Aprons ➢ PVC protective gear ➢ Eyewash facilities ➢ Ensure there is ready access to a safety shower ➢ Respiratory protection when working in case of inadequate ventilation

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White Liquid	Relative density (Water = 1)	Not available
Odour	Odourless	Auto ignition temperature	Not available
Odour threshold	Not Available	Decomposition temperature	Not available
pH	No data	Viscosity	Not available
Melting point (^{o}C)	Not Available	Molecular weight (g/mol)	Not available
Boiling point (^{o}C)	Not available	Taste	Not available
Flash point (^{o}C)	Not available	Explosive properties	Not available

Evaporation rate	Not available	Oxidising properties	Not available
Flammability	Not flammable	Volatile component (% vol)	Not volatile

SECTION 10 – STABILITY AND REACTIVITY

General Information	Non reactive
Chemical stability	Stable
Conditions to avoid	None
Incompatible materials	None
Hazardous Polymerisation	Not available

SECTION 11 – TOXICOLOGICAL INFORMATION

General Information	Not skin corrosive but may be irritating Not an eye corrosive but may be irritating
Ingestion	Ingestion of this product may irritate the gastrointestinal tract causing nausea and vomiting
Other	No Acute toxicity
Inhalation	No specific disorder or effects are identified. Inhalation of vapor, mist, spray, aerosol may cause slight respiratory tract irritation.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	Acute aquatic hazard: This material has been classified as hazardous. Acute toxicity estimate (based on ingredients): >1 - <10 mg/L This material has been identified with long term aquatic environment effects
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 ➢ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed

SECTION 14 – TRANSPORT INFORMATION

Labels required

	
Marine Pollutant	Yes
HAZCHEM	None

Land transport (ADG)

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Sea transport (IMDG / GGVSee)

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

SECTION 15 – REGULATORY INFORMATION

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

GHS Codes	6.1E, 6.4A, 9.1A
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)	None applicable
Approval Code	Not available
Substance Triggers	Not applicable
Certified Handler	Not applicable
Emergency Response Plan	Not applicable
Secondary Containment	Not applicable
Signage	None
Fire Extinguishers	Not applicable

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