



Materials Safety Data Sheet
RENCO Pre Gastric Esterase [Lingual Lipase] Powder
(non Hazardous)

1. IDENTIFICATION of the Product and Company

Product Name : Kid Goat, Lamb, Calf Pre Gastric Esterase [Lingual Lipase]
Powder

Recommended Use : Lipolysis of fats

Trade Name : RENCO

Manufacturer : Renco New Zealand, 10 London Street, PO Box 122,
Eltham, NEW ZEALAND

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2. HAZARDS IDENTIFICATION

Inhalation : Very high concentrations of dust may result in inflammations of the mucous membranes of the respiratory tract.

Skin Contact : Dry powder may cause withdrawal of fluid from the skin and may, on prolonged contact, produce irritation.

Eye Contact : May cause a stinging sensation .

Ingestion : Acute and toxic effects can result from the ingestion of excessive amounts of salt. High concentrations may produce inflammatory reactions in the gastrointestinal tract and may cause vomiting, diarrhoea, convulsions and collapse.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Appearance/Odour : Powder, pale red in colour. Slight but not unpleasant odour.

Solubility limits : Soluble in water

pH: : Not Applicable

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Ingredients	CAS No.	proportion
Sodium chloride	7647-14-5	≤ 95%
Maltodextrin	9050-36-6	≤ 20%
Pregastric esterases enzymes [lipase]	9001-62-1	< 5%

4. FIRST AID MEASURES

Swallowed	:	Vomiting may occur. Give plenty of liquid to drink and obtain medical advice, especially if vomiting has not occurred. Give water to drink. Seek medical advice.
Eye	:	Flush with copious cold water. If irritation develops obtain medical advice.
Skin	:	Wash the affected area with soap and water. Remove and wash contaminated clothing.
Inhaled	:	Remove patient to fresh air. Keep warm and at rest. Give drinks if desired.
First Aid Facilities	:	Water to be available as an aid in first aid.

Notes for Medical Personnel

Swallowed	:	Give water to drink. No need to induce vomiting.
Eye	:	Irrigate with copious quantities of slow flowing water for up to 15 minutes. Eye lids to be held open.
Skin	:	Brush off clothing and wash skin thoroughly with plenty of water.
Inhaled	:	Not normally a risk, but some may experience discomfort if working with a dusty product. If exposure has occurred allow the victim to drink water.

5. FIRE FIGHTING MEASURES

Flammability	:	Non-flammable
Extinguishing Media	:	Use agents suitable for surrounding fire [dry chemical, CO ₂ , water spray or foam.
Hazards of Combustion	:	Avoid inhaling the combustion gases. The salt portion of the powder will withstand temperatures up to its melting point and beyond without decomposing, but at very high temperatures [>800°C] a vapour may be emitted which is particularly irritating to eyes.

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Special protective equipment : as applicable to the combustion products associated with Fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Disposable gloves and avoid prolong inhalation of the dust.
An eyewash bottle should be available.

Environmental Precautions : Spillages should be swept up and maybe be safely hosed with water to the drain.

7. HANDLING AND STORAGE

Handling : Avoid contact with eyes, skin contact and dust inhalation.
Eating, drinking and smoking in work areas is prohibited.
Wash hands after use.
Remove protective equipment and contaminated clothing before entering eating areas.

Materials to avoid : non known.

Storage conditions : Long term storage frozen at – 18°C
Short term in a cool place, at or below 8°C
Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

SUBSECTION 1 : WORKPLACE EXPOSURE GUIDELINE

Occupational Exposure : For salt as total dust 10 mg/m₃ [8hr TWA]

Dangerous Exposure : Non specified

Engineering Controls : Non specified

SUBSECTION 2 : ENGINEERING CONTROLS

Respiratory Protection : If the process is such that dust is generated, a disposable face mask should be worn.

Hand Protection : Gloves to be worn if prolonged contact is anticipated.
Prolonged contact with high concentrations of salt in dry or wet form can cause withdrawal of fluid from the skin.

Eye Protection : Wear chemical safety goggles in situations where contact with the eyes may occur.

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Skin Protection	:	Skin should be washed to remove the powder. The high salt concentration in the powder may cause withdrawal of fluid from the skin.
Other protective measures	:	An eyewash and hand washing facilities should be readily available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Powder
Colour	:	pale red in colour
Odour	:	Slight but not unpleasant odour
Solubility	:	In water
Density	:	Not applicable
Melting Point	:	Not applicable
Boiling Point	:	Not applicable
Flammability Point	:	Non-flammable
Flash Point	:	Non-flammable
Explosive properties	:	Non-flammable
Oxidising properties	:	Non-flammable
Vapour pressure	:	Not known
Viscosity	:	Not applicable
Vapour density	:	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable
Conditions to avoid	:	The salt content will react with strong sulphuric acid or nitric acid to give hydrogen chloride gas.
Material to avoid	:	Under wet conditions the salt content may corrode many common metals, particularly iron, aluminium and zinc. Stainless and monel resist attack.
Hazardous decomposition products	:	Trace amounts of hydrogen chloride gas may be evolved at temperatures in excess of 800°C originating from the salt content. Does not react with alkalis at ordinary temperatures.

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11. TOXICOLOGICAL INFORMATION

Eyes	:	Dust may be irritating.
Skin	:	Irritation after prolonged contact
Ingestion	:	The salt component is an essential constituent of the diet. The blood stream contains nearly 1% sodium chloride, The LD 50 for rat's is 3000mg / kg oral.
Inhalation	:	Dusts may be irritating
Carcinogenicity	:	Not considered a carcinogen.
Mutagenicity	:	Not considered to be a mutagen.
Reproductive Effects	:	Non identified.

12. ECOLOGICAL INFORMATION

Ecotoxic effect	:	The salt content can be detrimental. A maximum value of 412 mg/L of salt ensures the protection of all aquatic life. Source- Water Research Centre- September 1990.
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13. DISPOSAL CONSIDERATION

Spills	:	Recover the product when possible. Wash the spill area down with water if necessary.
Disposal	:	Refer to the local council bylaws and Land Waste Management Authority. Dissolved material in excess water is normally suitable for disposal in the storm water system.

14. TRANSPORT INFORMATION

Transport Hazard Classes DOT, ADR, ADN, IMDG, IATA Class	:	NOT applicable
UN Proper Shipping name DOT, ADN, IMDG, IATA	:	NOT applicable
UN-Number DOT, ADN, IMDG, IATA	:	NOT applicable

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Packing Group
DOT, IMDG, IATA : NOT APPLICABLE

Environmental Hazards : NOT APPLICABLE

SPECIAL Precautions : NOT APPLICABLE

15. REGULATORY INFORMATION

Approval status : Lipase, triacylglycerol hydrolase [9001-62-1]
Approved by EPA New Zealand under Group Standard
HSR002503

Safety Phrases : P401 keep out of reach of children

P261 Avoid breathing the dust

P262 Do not get in eyes, on skin, or on clothing

P281 Use personal protective equipment as required

H335 May cause respiratory irritation if inhaled.

Safety, health and environmental regulations specific for the product:

: N/A

16. OTHER INFORMATION

The information is based on our current level of knowledge and it is related to the product in the state in which it is delivered. It should not be therefore construed and guaranteeing specific properties of the product described or its suitability for a particular application.

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