

Materials Safety Data Sheet
RENCO Liquid Rennet
(non Hazardous)

1. IDENTIFICATION of the Product and Company

Product Name : Renco Natural Calf Rennet Liquid, Renco Rennet Liquid
 Recommended Use : Hydrolysis of polypeptides (casein proteins)
 Trade Name : RENCO
 Manufacturer : Renco New Zealand, 10 London Street, PO Box 122,
 Eltham, NEW ZEALAND
 Telephone : +64 6 764 8008
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Contact Point : Melvyn Smith, Renco New Zealand
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2. HAZARDS IDENTIFICATION

Physical and Chemical Hazards : Hazardous properties of this product are considered to be limited.
 Human Health : May cause minor irritation on contact with eyes.
 Prolonged skin contact may cause redness and irritation.
 Product does contain small amounts of a sensitising substance which may provoke an allergic response in sensitised people.
 Environment : Harmful effects on the environment are considered to be limited.

3. COMPOSITION /INFORMATION ON INGREDIENTS

Appearance/Odour : Pale straw coloured clear liquid. Slight but not unpleasant odour.
 Solubility limits : Fully miscible with water.
 pH: : 5.8 ± 0.25 [mildly acidic]

Ingredients	CAS No.	proportion
Water	7732-18-5	82%
Sodium chloride	7647-14-5	17%
Sodium Benzoate	2532-32-1	0.1%

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RENNET ENZYMES

→ Chymosin	9001-98-3	< 1%
→ Pepsin	9001-75-6	< 1%

4. FIRST AID MEASURES

Swallowed	:	Not toxic but may cause mild gastrointestinal effects.
Eye	:	May cause irritation
Skin	:	May cause mild irritation.
Inhaled	:	Aerosol inhalation may cause mild irritation.
First Aid Facilities	:	Water to be available as an aid in first aid.

Notes for First Aiders-

Swallowed	:	Rinse mouth and throat with cold water. Give water to drink. Consult a doctor in the event of any complaints.
Eye	:	Flush eyes with copious quantities of cold water with eyelids held wide open for at least 15 minutes. Remove contact lenses.
Skin	:	Remove contaminated clothing. Wash off skin with plenty of water. Consult a doctor in the event of any complaints.
Inhaled	:	Remove from exposure to fresh air immediately. If symptoms of irritation or sensitisation occur consult a doctor.

5. FIRE FIGHTING MEASURES

Flammability	:	Non-flammable
Extinguishing Media	:	Will not combust.
Hazards of Combustion	:	Will not combust.
Special protective equipment	:	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	:	Avoid inhalation of aerosols and contact with skin and eyes. Follow the precautions for safe handling in section 7. For personal protection see section 8.
Environmental Precautions	:	Avoid discharge onto the ground, into drains or waterways.
Methods of cleanup	:	Retrieve the product if possible for safe disposal. After spillage avoid creating aerosols or dust from dried preparation. Avoid splashing and high pressure washing creating aerosols. Contain spilled liquid and absorb or remove by mechanical means. Wash away remainder with water. Remove and wash contaminated clothing before re-use.

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Flush the area and equipment well with copious quantities of water.

7. HANDLING AND STORAGE

Handling : Avoid contact with eyes and skin, avoid inhalation of aerosols. Hose away spills with water to avoid dust formation from dried product. Keep area clean.
Wash hands after use.

Materials to avoid : None known.

Storage conditions : Store in a cool place, at or below 8°C.
Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV – TWA exposure limit : not assigned.

Personal Protection : Respiratory- No known risk if the formation of aerosols is avoided.
Hands- wearing of gloves is recommended.
Eyes- wearing of safety glasses is also recommended.
Skin- protective clothing.
Environmental- avoid dispersion to environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Pale straw colour

Odour : Slight but not unpleasant odour

Solubility : In water

Density : 1.112 gms/mL

Melting Point : Not applicable

Boiling Point : Not available

Flammability Point : Non-flammable

Flash Point : Non-flammable

Explosive properties : Non-flammable

Oxidising properties : Non-flammable

Vapour pressure : Not known

Viscosity : Not available

Vapour density : Not applicable

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10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable under storage conditions.
Conditions to avoid	:	Increased temperature and humidity.
Material to avoid	:	Can corrode many common metals, particularly iron, aluminium and zinc. Stainless and monel resist attack.
Hazardous decomposition products	:	None known.

11. TOXICOLOGICAL INFORMATION

Eyes	:	Splashes may be irritating.
Skin	:	May irritate after prolonged contact
Ingestion	:	The salt component is an essential constituent of the diet. However ingestion may irritate and cause malaise. Salt has a LD 50 for rat's is 3000mg / kg oral.
Inhalation	:	Aerosols may be irritating and cause an allergic reaction in sensitised individuals.
Carcinogenicity	:	Information not available
Mutagenicity	:	Not considered to be a mutagen.
Reproductive Effects	:	Information not available.

12. ECOLOGICAL INFORMATION

Ecotoxic effect	:	The harmful effects of this substance on the environment are considered to be limited. Enforce GMP, product is expected to be biodegradable and not to be bioaccumulable.
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13. DISPOSAL CONSIDERATION

Spills	:	Recover the product when possible. Wash the spill area down with water if necessary.
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Disposal : Refer to the local council bylaws and Land
Waste Management Authority.

Contaminated packaging : Must be disposed of in a safe way.

14. TRANSPORT INFORMATION

Material is not included in the requirements for "Transport of Dangerous Goods on Land". Also not regulated by IATA [International Trade organisation representing airlines], IMO [International Maritime Organisation].

EEC Classification : Under the Chemicals [Hazard Information and Packaging for Supply] regulations 2002, this material is not dangerous for supply or conveyance.

15. REGULATORY INFORMATION

National Regulation : Legal substance in New Zealand

Please check the national regulations in the country of use.

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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