

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name **ECP Limited**  
 Address: 39 Woodside Ave, Northcote, Auckland , New Zealand

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Product	Pepsin 1% in 0.1M HCl				Code	PAUPEHCL-3L
CAS#	HSNO#	UN #	DG Class/es	Packing group #	Tracking?	Handlers Certificate?
9001-75-6 (pepsin)	HSR002596	NA	-	-	No	No
7647-01-0 (hydrochloric acid)		1789	8	III	No	No

**Recommended use:** Laboratory Investigations

**2. Hazards Identification**

Hydrochloric acid 1% or below, not considered hazardous GHS classification refers to pepsin

<b>GHS Classification</b>		<b>WARNING</b>
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Skin irritation (Category B)  
 Respiratory sensitization (Category A)  
 Skin sensitization (Category B)

**3. Ingredients**

Water	7732-18-5	To 100%
Pepsin	9001-75-6	1.00%
Hydrochloric acid	7647-01-0	0.87%

**4. FIRST AID MEASURES**

**Inhalation** Remove victim to fresh air. Investigate possible misuse of material. Seek medical attention.

**Ingestion** Rinse mouth with water. Give water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting, but if vomiting occurs naturally have victim lean forward to reduce risk of aspiration

**Eye** Remove contact lenses. Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.

**Skin** Wash affected areas with water.

**First Aid Facilities** Normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**Extinguishing Media** Use any extinguishing media.

**Specific Hazards** None.

**Precautions in** Firefighters should wear. Self-Contained Breathing Apparatus and full protective

**connection with Fire** clothing to minimise exposure. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. If safe to do so, remove undamaged containers from fire area.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Wear appropriate clothing tell others of spill. Contain and collect using absorbent material. And dispose of as hazardous waste.

## 7. HANDLING AND STORAGE

**Handling** Repeated or prolonged exposure to the concentrate without personal protection should be avoided in order to lessen the possibility of disorders. It is essential that all who come into contact with this material maintain good standards of personal hygiene i.e. washing hands prior to eating, drinking or going to the toilet. Keep container closed and bung in place.

**Storage** Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Avoid Alcohol, Bases, Alkali metals, Metals, Amines, Heavy metal salts, permanganates, e.g. potassium permanganate, Fluorine, Alkalis, hexalithium disilicide, Incompatible with:, tannins.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Limits** No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However as with all chemicals, exposure to concentrate should be kept to the least possible levels.

**Respiratory Protection** Handle in well-ventilated area

**Eye Protection** Safety glasses.

**Hand Protection** latex or nitrile gloves

**Body Protection** Latex or Nitrile gloves and safety coat

**Eng. Controls** N/A.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Colourless to light yellow solution

**Odour** Characteristic acidic aroma

**Boiling Point** >100°C

**pH** <5

**Solubility in Water** Soluble in water

**Specific Gravity** 1.005+/-0.005 @ 20 °C

**(H<sub>2</sub>O = 1)**

**Physical State** Water like solution

**Flash Point** None

**Flammability** None

**Flammable Limits LEL** None

**Flammable Limits UEL** None

## 10. STABILITY AND REACTIVITY

**Stability** N/A

**Hazardous**

**Polymerization** Will not occur

**Materials to Avoid** Alcohol, Bases, Alkali metals, Metals, Amines, Heavy metal salts, permanganates, e.g. potassium permanganate, Fluorine, Alkalis, hexalithium disilicide, Incompatible with:, tannins.

**Decomposition**

**Products** None known.

**Hazardous Reaction** None Known.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology** None Known

**Inhalation** Ingredients are considered hazardous when used as directed

**Ingestion** Potential symptoms include nausea, diarrhoea, abdominal pain and vomiting.  
**Skin** May cause skin irritation prolonged contact with the concentrate, which can result in redness in some people. No known effects through continual exposure to dilute solutions.  
**Eye** The concentrate eye irritant. May cause eye soreness.  
**Chronic Effects** No known adverse effects.

## 12. ECOLOGICAL INFORMATION

**Environ. Protection** No data is available for this product  
**Mobility** No data is available for this product.  
**Persistence** No data is available for this product.  
**Degradability** Fully biodegradable.  
**Bioaccumulation** No data is available for this product.  
**Ecotoxicity** No data is available for this product.

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste according to Federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

## 14. TRANSPORT INFORMATION

**U.N. Number** 1789  
**Proper Shipping Name** HYDROCHLORIC ACID  
**DG Class** 8  
**Hazchem Code** N/A  
**Packing Group** III

## 15. REGULATORY INFORMATION

New Zealand HSNO number  
HSNO Group Standard Approval: HSR002596  
6.1 Acute toxicity ;6.3 Skin irritation ; 6.4 Eye irritation ; 6.5 Skin sensitization ; 8.2 Skin corrosion  
8.3 Serious eye damage  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

## 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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