

**Issue Date:** 07 January 2019  
**Product Name:** 88% Lactic Acid Solution  
**Issued by:** Deltagen Australia Pty Ltd

**COMPANY DETAILS**

**Company Name** Deltagen Australia Pty Ltd  
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**Other Information** The information and recommendations contained herein are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation in respect of safety in use, suitability, efficacy or otherwise, including freedom from patent infringement. Users should make their own tests for their particular purpose. We cannot accept any liability for any loss, damage or infringement arising from the use of the information and recommendations contained herein.

**IDENTIFICATION**

**Product Code** DG-LACTIC  
**Product Name** 88% Lactic Acid Solution  
**Other Names** Name  
2- Hydroxypropionic acid  
1-Hydroxyethanecarboxylic acid  
**Product Use** Food Grade Acidulant  
**Proper Shipping Name** Corrosive liquid, acidic, organic, n.o.s.  
**Risk Phrases** R34 Causes Burns  
**Safety Phrases** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S36/37/39 Wear protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately. (Show label or this document if possible)  
**UN Number** 3265  
**DG Class** 8  
**Packing Group** II  
**Hazchem Code** 2X  
**Product Use** Plant Growth Regulator For Malting

**Physical Data**

**Appearance** A clear, colourless to slightly yellow liquid  
**Odour** Slightly Acrid  
**Specific Gravity** 1.19-1.3  
**Not Explosive**

**Ingredients**

Chemical Name		C.A.S	[6915-15-7]	
Malic Acid		C.A.S	[6915-15-7]	
88% Water		C.A.S	[7732-18-5]	12%

**HEALTH HAZARD INFORMATION**

**Chemical Stability** Decomposition Product – Carbon Dioxide and Carbon Monoxide may be produced during decomposition.

**Health Effects**

**Ingestion** Causes acid burns in mouth, throat and stomach, may cause diarrhoea, nausea, vomiting, perspiration, shortness of breath, cyanosis and vascular collapse.  
**Eyes** Causes burns. May cause redness, pain, blurred vision and eye damage  
**Skin** Causes Burns, may be harmful if absorbed through skin  
**Inhaled** Causes burns, destructive to tissue of the mucous membranes and respiratory tract, eyes and skin. May result in spasm. Inflammation and oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema. Symptoms include sore throat, burning sensation, coughing, shortness of breath, headache, nausea and vomiting.

**TOXICITY DATA****Lactic Acid (Pure)**

<b>Oral LD50 Rat</b>	3543 mg/kg
<b>Oral LD50 Mouse</b>	4875 mg/kg
<b>Skin LD50 Rabbit</b>	>2000 mg/kg
<b>Eye Irritation</b>	0.75 mg
<b>Tetraogenicity</b>	One study has shown lactic acid can produce fetotoxicity (degreased bone ossification) in presence of maternal toxicity. Mice were fed 570mg.kg on days 6-15 of pregnancy. Maternal toxicity was evidenced by lower food consumption and liver weight.

Further hazardous properties cannot be excluded but are unlikely when the product is handled properly.

**First Aid**

<b>Swallowed</b>	Rinse mouth with water. Drink water for dilution. Do not induce vomiting. Seek medical help
<b>Eye</b>	Wash out immediately with copious amount of fresh water, Seek medical advice.
<b>Skin</b>	Remove contaminated clothing. Flush affected area with plenty of water. Seek medical attention.
<b>Inhaled</b>	Remove to fresh air, resuscitate if necessary and rest. Seek medical advice.
<b>Advice To Doctor</b>	Treat Symptomatically

**Personal Protection**

<b>Protective Equip</b>	Operators should wear protective clothing including gloves, splash goggles and face shield. Ensure an eye bath and safety shower are available and ready for use.
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**Storage and Transport**

<b>Storage</b>	Store in a cool, dry, well-ventilated area. Keep containers tightly sealed when not in use. Inspect for leaks and protect against physical damage. Store away from incompatible materials such as oxidising agents, alkalis, reducing agents, iodides, strong acids and sources of ignition.
<b>UN Class</b>	3265
<b>DG Class</b>	8

**Incompatible in a placarded load with:**

Class 1, Class 4.3, Class 5, Class 6 (cyanides)

<b>Container Type</b>	Must comply with the requirements of the Hazardous Substances (packaging) Regulations 2001.
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**Spills and Disposals**

<b>Spills &amp; Disposals</b>	Dilute with water, Dispose of according to local, state and federal regulations. Wear full protective clothing while cleaning up.
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**Fire/Explosion Hazard**

<b>Fire/Explos.</b>	Fire Fighters should wear positive pressure self contained breathing apparatus. Clear area of unnecessary personnel. Stay upwind.
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<b>Fire Fighting</b>	Water Spray, Dry Chemicals, Alcohol Foam or CO <sup>2</sup> .
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**OTHER INFORMATION****Contact Point****Contact MIKE WATSON**

Managing Director  
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