

# EASYCHEMICALS

## Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCES OR PREPARATION

<b>Product</b>	CITRIC ACID.
<b>Application</b>	Citric Acid Monohydrate Descaler.
<b>Synonyms</b>	2-hydroxy-1,2,3-propane tricarboxylic Acid

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical</b>	<b>% Conc</b>	<b>Classification</b>	<b>Exposure</b>	<b>CAS</b>	<b>EINECS</b>
Citric Acid	87	Xi;R36		5949-29-1	201-069-1

### 3. HAZARDS IDENTIFICATION

Irritating to eyes.

### 4. FIRST AID MEASURES

<b>Inhalation</b>	Dust may irritate respiratory tract. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
<b>Skin</b>	Mild irritation - Drench the skin with plenty of water. Remove contaminated clothing and wash before re-use. If large areas of the skin are damaged or if irritation persists, seek medical attention.
<b>Eyes</b>	Irritation - Immediately gently irrigate with plenty of clean water for at least 15 minutes. Obtain medical attention.
<b>Ingestion</b>	Large quantities may irritate gastrointestinal tract – Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media</b>	Water, water-spray, dry powder, foam, carbon dioxide.
<b>Hazardous Combustion Products</b>	Oxides of carbon.
<b>Special Equipment for Fire Fighting</b>	Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

<b>Safety Precautions</b>	Wear appropriate PPE – See section 8.
<b>Environmental Precautions</b>	Avoid raising dust.
<b>Clean up Procedure</b>	Sweep up and shovel into suitable containers for waste disposal. Subsequently wash spill site with plenty of water.

### 7. STORAGE AND HANDLING (IN NORMAL USE)

<b>Handling</b>	
<b>Ventilation</b>	Good general ventilation. LEV may be required in dusty environments.
<b>Recommended Procedures</b>	Avoid contact with skin and eyes.

<b>Storage</b>			
<b>Temperature Range</b>	Cool.	<b>Humidity Range</b>	Dry
<b>Keep away from</b>			see section 10.
<b>Suitable Storage Media</b>			Polyethylene coated paper bags; Polyethylene/propylene bags.
<b>Precautions Against Static Discharge</b>			Required in dusty environments.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (NORMAL USE)

<b>Respiratory Protection</b>	Approved nuisance dust mask.
<b>Hand Protection</b>	Standard work gloves.
<b>Eye Protection</b>	Wear safety glasses.
<b>Skin</b>	Overalls & boots.
<b>Hygiene Measures</b>	Always wash thoroughly after handling chemicals.

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### 9. PHYSICAL / CHEMICAL PROPERTIES

<b>Appearance</b>	White or Colourless powder or crystals.
<b>pH</b>	1.85, 5% solution @ 25°C
<b>Melting Point/Range</b>	135 - 152°C
<b>Auto Ignition Temperature</b>	345°C
<b>Relative Density</b>	1.542 g/ml
<b>Solubility in Water</b>	67.6% w/w @ 25°C
<b>Solubility in Solvent</b>	41.9% w/w in ethanol @ 25°C

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### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable in normal conditions.
<b>Conditions to Avoid</b>	Avoid dust formation.
<b>Materials to Avoid</b>	Strong bases and oxidising agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon.

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### 11. TOXICOLOGICAL INFORMATION

**Effects** Irritating to eyes and skin.  
**Oral LD50 (rat)** 11,700 mg/kg.

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### 12. ECOLOGICAL INFORMATION

#### Environmental Effects:

<b>Mobility</b>	Completely soluble.
<b>Degradability</b>	COD 665 mg O2/g; BOD5 481 mg O2/g ; >98% biodegradable after 2 days
<b>Aquatic Toxicity</b>	LC50, 96hr, goldfish = 440 – 706 mg/l

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### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

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### 14. TRANSPORT INFORMATION (REGULATIONS)

Not regulated for transport.

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### 15. REGULATORY INFORMATION

<b>Supply label details</b>	Ref. CHIP '99
<b>Label Name</b>	Citric Acid
<b>Symbols</b>	Irritant
<b>Risk Phrases</b> 36	Irritating to eyes.
<b>Safety Phrases</b> 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>E.C. No.</b>	201-069-1

#### **Users are advised to consult these regulations for further information**

The information contained in this data sheet does not constitute an assessment of workplace risks.

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### 16. OTHER INFORMATION

#### **This material is usually used for:**

Food additive E330

To the best of our knowledge the information contained in this Material Safety Data Sheet is correct at the time of printing; we will make users aware of any changes in information of which we become aware, by

Re-issuing this Data Sheet. **Chemcare (Liverpool)** do not accept any liability whatsoever arising out of the use of the information, or any use, application, adaptation or processing of the product described therein.

Contact supplier for further information.

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