

# VETPAK SAFETY DATA SHEET

## Section 1: Identification of the Substance or Mixture and of the Supplier

**Product Name:** CITRIC ACID

**Recommended Use:**

**Company Details:** Vetpak Ltd.

**Address:** 150 Rickit Road, Te Awamutu.

**Telephone Number:** (07) 870 2024

**Emergency Telephone Number:** (07) 870 2024 8.00am to 5.00pm Monday to Friday except public holidays. National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

**Date of Review:** 8<sup>th</sup> August 2008

## Section 2: Hazards Identification

**Hazards Classification:** Hazardous according to the criteria of ERMA, New Zealand.

6.1E, 6.3B, 8.3A

Warning: May be harmful if swallowed. Keep out of reach of children. Read label before use.

Warning: Causes mild skin irritation. If skin irritation occurs; get medical attention.

Danger: Causes serious eye damage. Wear eye protection. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and safe to do. Continue rinsing. Immediately call a Poison centre or doctor.

## Section 3: Composition / Information on Ingredients:

### INGREDIENTS:

Pure Substance	CAS Number	Proportion
Citric Acid	77-92-9	>99%
Water	7732-18-5	<1%

## Section 4: First Aid Measures:

### Description of necessary first Aid measures:

**Swallowed:** If swallowed, rinse out mouth and then drink 1 - 3 cups of water. DO NOT induce vomiting. Seek medical attention if necessary.

**Skin:** Remove contaminated clothing, wash affected skin with soap and water - DO NOT use any solvents.

**Eye:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and safe to do. Continue rinsing. Immediately call a Poison centre or doctor.

**Inhaled:** Remove casualty to fresh air and keep him/her calm. Consult physician.

**Workplace Facilities:** Eye bath and running water.

**Notes for Medical Personnel:** Treat symptomatically based on judgment of doctor and individual reactions of patient.

## Section 5: Fire Fighting Measures



# VETPAK SAFETY DATA SHEET

**Fire Hazard Properties:** Decomposes when exposed to fire conditions. Products of decomposition may include oxides of carbon, acrid smoke, and irritating fumes. Dust may form explosive mixture with air.

**Extinguishing Media & Methods:** Firefighters should wear full protective clothing including self contained breathing apparatus. Use water spray jet, dry powder, foam, or carbon dioxide as extinguishing media. Precipitate gases/vapours/mists with water spray.

**Recommended Protective Clothing:** No data available.

## Section 6: Accidental Release Methods

**Procedures to be covered:** Clean up personnel should wear full protective clothing including respiratory protection in dusty conditions. Avoid raising dust. Collect spilled material into suitable containers and hold for later disposal. Flush away spill area residues with copious amounts of water.

## Section 7: Handling and Storage

**Storage:** Store in closed, labeled containers and in a dry place, with the lid firmly fastened. Store at temperatures between 10 - 25 deg C. Keep away from aluminium, copper, zinc, and steel. Keep away from potassium tartrate, alkalis, alkaline earth carbonates and bicarbonates, metal nitrates, acetates, and sulfides.

**Packaging:** Use glass, stainless steel, polyethylene, polypropylene, or PVC. Do not use aluminium, copper, zinc and steel.

## Section 8: Exposure Controls / Personal Protection

**Workplace Exposure Standards:** An exposure standard has not been established for this product. However, the following exposure is recommended for nuisance dusts: TWA 10 mg/m<sup>3</sup>.

**Engineering Controls:** Transfer and handle only in enclosed systems. Local exhaust ventilation is necessary. Take precautionary measures against electrostatic charging. Avoid dust formation - consider dust explosion hazard

**Personal Protective Equipment (PPE):** In case of open handling use a nose approved dust mask. Use protective gloves and tightly fitting safety glasses.

**General hygiene:** : Do not eat, drink or smoke while handling. Wash hands thoroughly before eating, drinking or smoking.

## Section 9: Physical and Chemical Properties

**Physical State:** Powder.

**Appearance:** Colourless to white Powder, different granular size, odourless with a strong acidic taste.

**Melting Point:** 153 deg C

**Vapour Pressure:** Not applicable.

**Specific Gravity:** 1.542 (Water = 1)

**Flash Point:** Not available.

**Flammability Limits:** Not available.

**Solubility in Water:** Soluble.

**pH:** 2.2 (10g/l @ 20 deg C)

**Further Specifications:** Ignition temperature: 500 deg C. Decomposition temperature = > 170 deg C  
Solubility in ethanol = 383 g/L Bulk density = 725 kg/m<sup>3</sup> Slightly hygroscopic. Solubility in water @ 20 deg C 1.47 g/g water or 59.2/100g citric acid solution.

## Section 10: Stability and Reactivity



# VETPAK SAFETY DATA SHEET

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**Stability of the Substance:** Stable under normal conditions of storage.

**Conditions to avoid:** No information available.

**Material to avoid:** Keep away from aluminium, copper, zinc, and steel. Keep away from potassium tartrate, alkalis, alkaline earth carbonates and bicarbonates, metal nitrates, acetates, and sulfides.

**Hazardous decomposition Products:** No information available.

**Hazardous polymerization:** No information available.

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## Section 11: Toxicological Information

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**Data and interpretation:** Oral (rabbit) LD50: >7000 mg/kg. Oral (mouse) LD50: >5400 mg/kg. Oral (rat) LD50: >6730 mg/kg. Eye - strong irritant (rabbit): 750 ug/24hr. Skin - moderate irritant (rabbit): 500 mg/24hr. Chronic - well tolerated oral (rat): 2000 mg/kg/90 days. Not a carcinogen (rat, mouse), not a teratogenic. GRAS - generally recognized as safe for human consumption.

**Acute Effects:**

**Swallowed:** Adverse effects are not expected.

**Skin:** Irritating to eyes.

**Eye:** Contact with skin may result in moderate irritation.

**Inhaled:** Inhalation of dust or powder is likely to result in respiratory irritation.

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## Section 12: Ecological Information

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**Potential Environmental Considerations:**

**Data organisation:**

**Environmental risk phrases:**

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## Section 13: Disposal Considerations

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**Disposal Information:** Dispose according to all local, and government regulations. Bury, incinerate or cover contaminated surface with soda ash or sodium bicarbonate. Neutralize with NH<sub>4</sub>OH or HCL.

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## Section 14: Transport Information

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**UN Number:** Not applicable.

**Shipping Name:** CITRIC ACID ANHYDROUS

**Dangerous Goods Class:** Not applicable.

**Subsidiary Risk:** Not applicable.

**Pack Group:** Not applicable

**Precaution for User:** IRRITANT

**Hazchem Code:** N/A

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## Section 15: Regulatory Information

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**Regulatory status:** Appears on GRAS list (Generally regarded as safe).

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## Section 16: Other Information

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## VETPAK SAFETY DATA SHEET

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**Additional Information:** National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

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1. The above information has been compiled on the basis of good faith, and our experience from the available technical knowledge and data for this product.
  2. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used.
  3. No responsibility can be accepted for the wrongful or misinterpretation of this data.
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