

## CITRIC ACID MATERIAL SAFETY DATA SHEET

### 1. Chemical Product and Company Identification

Name: Citric Acid

Supplier: Intaglio Printmaker  
9 Playhouse Court  
62 Southwark Bridge Road  
London SE1 0AT  
Tel: +44 (0)20 7928 2633

### 2. Composition / Information on Ingredients.

- **Definition/Botanical Origin:** A chemical substance conforming to the empirical formula C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>
- **CAS No:** 5949-29-1
- **Status:** Chemical
- **Additives:** None
- **EINECS:** 201-069-1
- **INCI name:** Citric Acid

### 3. Hazards Identification

Xi - Irritant.

### 4. First-Aid Measures

- **Inhalation:** Remove from exposure. Seek medical attention for any breathing difficulty
- **Eye contact:** Rinse immediately with plenty of water for at least 15 minutes, lifting upper & lower lids occasionally. Contact a doctor if irritation persists.
- **Skin contact:** Wash thoroughly with soap & water, flush with plenty of water for at least 15 minutes. Remove contaminated clothing & shoes. Wash clothing before re-use. Thoroughly clean shoes before re-use. If irritation develops, seek medical advice.
- **Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.
- **Other:** When assessing action take Risk & Safety Phrases into account (Section 15)

### 5. Fire Fighting Measures

- **Extinguishing media:** Use CO<sub>2</sub>, Dry Powder or Foam type Extinguishers, spraying recommended extinguishing media to base of flames. Do not use direct water jet on burning material.
- **Extinguishing procedures:** Closed containers may build up pressure when exposed to heat and should be cooled with water spray.
- **Special measures:** Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
- **Unusual Fire and Explosion:** As with most organic solids, fire is possible at elevated temperatures Hazards or by contact with an ignition source. Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

### 6. Accidental Release Measures

- **Personal precautions:** Avoid contact with skin eyes and clothes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing).

- **Environment precautions:** Keep away from drains, soils, surface & ground waters.
- **Cleaning up methods:** Remove all potential ignition sources. Contain spilled material.
- **Spillages:** Ventilate area of leak or spill, sweep up and remove to an approved disposal container. Observe national and local disposal regulations.

## 7. Handling & Storage

- **Precautions in handling:** Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean clothes must be worn. Observe all warnings and precautions listed for the product.
- **Storage conditions:** Store in tightly closed original container, in a cool & dry area away from heat sources & protected from light. Avoid dust formation and control ignition sources. Keep air contact to a minimum.
- **Fire protection:** Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

## 8. Exposure Controls/Personal Protection

- **Respiratory protection:** Wear dust masks
- **Hand protection:** Wear protective gloves
- **Eye protection:** Use safety glasses
- **Work/Hygiene practices:** Wash hands with soap & water after handling.

## 9. Physical & Chemical Properties

**Colour:** White

**Appearance:** Granular / crystalline powder

**Odour:** Odourless

**Melting point (°C):** >300

**Assay:** 99.5 – 100.5

**Sulphate:** <150 ppm

**Heavy metals:** <10 ppm

**Water:** <1.0

## 10. Stability & Reactivity

- **Reactivity:** It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with oxidising agents, alkalis, nitrates
- **Decomposition:** Thermal decomposition may produce carbon dioxide, carbon monoxide

## 11. Toxicological Information

Literature values:

LD<sub>50</sub> (Rat) – 11700 mg/kg

LD<sub>50</sub> (Mouse) – 5040 mg/kg

Prolonged or repeated exposure may cause allergic reaction in some individuals.

## 12. Ecological Information

- **Biodegradability:** No data available
- **Precautions:** Prevent surface contamination of soil, ground & surface water.

## 13. Disposal Considerations

Consult with National and Local Authority Regulations. If permitted, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, transfer to container and arrange removal by a disposal company. Wash the site of spillage thoroughly with detergent & water.

#### 14. Transport Regulations

Road (ADR/RID): n/a

Sea (IMDG): n/a

Air (IATA): n/a

CHIP: See section 15

#### 15. Regulatory Information

- **Hazards:** Irritant
- **Symbols:** Xi
- **Risk Phrases:**
  - R 37 Irritating to respiratory system
  - R 38 Irritating to skin
  - R 41 Risk of serious damage to eyes
- **Safety Phrases:**
  - S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
  - S 36/39 Wear suitable protective clothing and eye/face protection.

#### 16. Other Information

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.