

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Product name: Citric Acid Monohydrate.

Synonyms: Citric Acid, Acide Citrique Monohydrate, 2-Hydroxy, 1.2.3-propane tricarboxylic acid, Betahydroxytricarballic acid

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA.

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: CHEMICAL. CITRIC ACID MONOHYDRATE.

CAS No: 77-92-9 Status: Organic Acid CoE No: FEMA: Additives: None

FDA: IFRA: Formula: C₆H₈O₇H₂O

RIFM: EINECS: RTECS:

INCI name: Citric Acid FCCIV:

3. HAZARDS IDENTIFICATION:

Low health hazards in normal conditions of handling and use.

4. FIRST-AID MEASURES:

INHALATION: Sore throat, cough, shortness of breath.

TREATMENT: Remove from exposure. Rest and keep warm. In severe cases or if recovery is not rapid or complete, seek medical attention.

EYE CONTACT: Irritation.

TREATMENT: Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.

SKIN CONTACT: Mild mechanical irritation.

TREATMENT: Remove contaminated clothing, rinse skin with plenty of water.

INGESTION: Mild gastrointestinal disturbance.

TREATMENT: Wash out mouth with water. Do not induce vomiting. If patient is conscious give plenty of water to drink. If patient feels unwell seek medical attention.

IMMEDIATE TREATMENT/ANTIDOTE: Symptomatic treatment.

5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA Use water fog, carbon dioxide, foam or dry chemical..

SPECIAL MEASURES: Avoid inhalation of toxic fumes. Use NIOSH approved and full protective equipment when fighting chemical fire. Use water spray to cool nearby exposed to fire.

EXTINGUISHING PROCEDURES: Material does not burn. Excessive heat may cause production of hazardous decomposition products.

6. ACCIDENTAL RELEASE MEASURES.

PERSONAL PRECAUTIONS: Wear appropriate RPE. See section 8.

ENVIRONMENT PRECAUTIONS: Avoid creating dusts. Ensure good ventilation.

CLEAN UP PROCEDURE Vacuum or sweep up and place in suitable labelled containers. Hold for waste disposal. Cover contaminated surfaces with Soda Ash or Sodium Bicarbonate. Add water if necessary. Neutralize with NH₄OH or 6M HCL

7. HANDLING & STORAGE.

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| PRECAUTIONS IN HANDLING: | Ensure good general ventilation. Avoid inhaling dusts. Avoid contact with eyes and skin. |
| STORAGE CONDITIONS: | Store in cool, dry conditions at ambient temperature. |
| SUITABLE CONTAINERS: | Store in original containers. |
| FIRE PROTECTION: | See section 10. |
| NEUTRALIZING AGENT: | Soda ash or Sodium Bicarbonate. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

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| RESPIRATORY PROTECTION: | Type approved RPE for dusts if required. |
| SKIN PROTECTION: | Rubber or plastic gloves. Lightweight overalls |
| EYE PROTECTION: | Use safety glasses/goggles. |
| WORK/HYGIENE PRACTICES: | Wash hands with soap & water after handling. Do not eat, drink or smoke around this product. |

9. PHYSICAL & CHEMICAL PROPERTIES.

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| APPEARANCE: | Odourless, free-flowing, white crystalline powder. |
| MELTING POINT°C: | 153°C |
| FLASH-POINT °C: | Not flammable |
| SOLUBILITY IN WATER: | 59.2 G/100g Water (appreciable) |
| SPECIFIC GRAVITY: | 1542 |
| PH: | 2.2% - 2,5 ppm (in solution at 5%) |
| DENSITY: | 1.665g/ml |

10. STABILITY & REACTIVITY.

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| REACTIVITY: | Mildly corrosive to carbon steel. |
| STABILITY: | Stable in normal conditions. |
| CONDITIONS TO AVOID: | High temperature, sparks, open flames. |

11. TOXICOLOGICAL INFORMATION.

Irritation to eyes, Mild irritation to skin and if inhaled. Not considered to be a carcinogen.

12. ECOLOGICAL INFORMATION.

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| BIODEGRADABILITY: | Easily degradable |
| MOBILITY: | Soluble in water. |
| AQUATIC TOXICITY: | Highly toxic to fish. Not considered to be toxic to bacteria. |
| AIR POLLUTION: | 50mg/m ³ for a mass emission > 0.5kg/h. |

13. DISPOSAL CONSIDERATIONS.

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| WASTE CODE: | 07 01 99 |
| RECOMMENDATIONS: | Can be eliminated with domestic garbage on condition it complies with local regulations. |

14. TRANSPORT REGULATIONS.

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| Road (ADR/RID): | n/a |
| Air (IATA): | n/a |
| SEA (IMDG) | n/a |

15. REGULATORY INFORMATION.

LABEL REQUIRED: Yes.
LABEL NAME: Citric Acid Monohydrate.
HAZARDS: n/a
SYMBOLS: n/a
RISK PHRASES: n/a
SAFETY PHRASES: CAUTION.

16. OTHER INFORMATION.**PACKAGING:**

| Type | Suitability |
|-------------------------|-------------|
| Glass | Yes |
| Lacquer lined steel/tin | Yes |
| Aluminium | Yes |
| HPPE | Yes |
| F/HDPE | Yes |
| Other plastic | Yes |

SHELF-LIFE

Min 12 months when stored within advised conditions.

Q.C. REQUIREMENTS.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.