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## MATERIAL SAFETY DATA SHEET (MSDS)

### CITRIC ACID ANHYDROUS AR

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : CITRIC ACID ANHYDROUS AR

Product code : C0071405000

Identification of the product : Citric acid  
 CAS No :77-92-9  
 EC No :201-069-1

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : Xi; R36

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



**MATERIAL SAFETY DATA SHEET (MSDS)**
**CITRIC ACID ANHYDROUS AR**
**2. Hazards identification -DSD (continued)**

Symbol(s)	: Xi : Irritant
R Phrase(s)	: R36 : Irritating to eyes.
S Phrase(s)	: S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**


Signal words	: Warning
Hazard statements	: H319 : Causes serious eye irritation.
Precautionary statements	
• Prevention	: P280: Wear protective gloves, protective clothing, eye protection, face protection. P264: Wash thoroughly after handling.
• Response	: P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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**3. Composition/information on ingredients**

Substance / Preparation	: Citric acid CAS No :77-92-9 EC No :201-069-1 Substance.
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Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**
**4.1. Description of first aid measures**

Inhalation	: Assure fresh air breathing. Allow the victim to rest.
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.
Ingestion	: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CITRIC ACID ANHYDROUS AR**
**4. First aid measures (continued)**
**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms relating to use : Causes serious eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**5. Fire-fighting measures**
**5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

For emergency responders : Equip cleanup crew with proper protection.  
Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CITRIC ACID ANHYDROUS AR**
**6. Accidental release measures (continued)**

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Wash thoroughly after handling.  
**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.  
**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

**Specific end use(s)** : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.  
 • **Respiratory protection** : Wear approved mask.  
 • **Hand protection** : Wear protective gloves.  
 • **Eye protection** : Chemical goggles or safety glasses.  
 • **Others** : When using, do not eat, drink or smoke.

**8.2. Control parameters**

**Occupational Exposure Limits** : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CITRIC ACID ANHYDROUS AR**
**9. Physical and chemical properties (continued)**

Physical state at 20 °C	: Solid.
Colour	: White crystalline
Odour	: Odorless
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 153 - 159 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: 173.9 °C
Boiling point [°C]	: 1750C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 3.70E-009 mm Hg @ 25
Vapour density	: 7,26
Density [g/cm3]	: 1,665
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity.**

Reactivity	: Not established.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**CITRIC ACID ANHYDROUS AR**
**10. Stability and reactivity (continued)**
**10.2. Chemical stability**

**Chemical stability** : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions** : Not established.

**10.4. Conditions to avoid**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Causes serious eye irritation.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**CITRIC ACID ANHYDROUS AR**
**12. Ecological information (continued)**

**Toxicity information** : Not established.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**Mobility in soil** : Not established.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

**13. Disposal considerations**
**13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

**General information** : Not regulated.

**14.2. Sea transport (IMDG) [English only]**

**General information** : Not regulated.

**14.3. Air transport (ICAO-IATA) [English only]**

**General information** : Not regulated.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**CITRIC ACID ANHYDROUS AR**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

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