| Material Safety Data Sheet | MOLYCHEM |
|----------------------------|--|
| CITRIC ACID ANHYDROUS AR | VERSION: 02 DATE OF ISSUE: 26-08-2019 SUPERSEDES: 01 |
| Product Code : 22680 | Page 1 of 7 |

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

1.1. Product identifier

Trade name: CITRIC ACID ANHYDROUS AR

Product code: 22680

Identification of the product: Citric acid

CAS No:77-92-9

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: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel:

+91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number: +91 22 4066 8111 (10:00am - 6:00 pm)

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): 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

| Material Safety Data Sheet | MOLYCHEM |
|----------------------------|--|
| CITRIC ACID ANHYDROUS AR | VERSION: 02 DATE OF ISSUE: 26-08-2019 SUPERSEDES: 01 |
| Product Code : 22680 | Page 2 of 7 |

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.

3. Composition/information on ingredients

Substance / Preparation : Citric acid

CAS No:77-92-9

Substance.

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.

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.

| Material Safety Data Sheet | MOLYCHEM |
|----------------------------|--|
| CITRIC ACID ANHYDROUS AR | VERSION: 02 DATE OF ISSUE: 26-08-2019 SUPERSEDES: 01 |
| Product Code : 22680 | Page 3 of 7 |

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

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.

Material Safety Data Sheet CITRIC ACID ANHYDROUS AR VERSION: 02 DATE OF ISSUE: 26-08-2019 SUPERSEDES: 01 Product Code: 22680 Page 4 of 7

• 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

Physical state at 20 °C : Solid.

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.

| Material Safety Data Sheet | MOLYCHEM |
|----------------------------|--|
| CITRIC ACID ANHYDROUS AR | VERSION : 02 DATE OF ISSUE : 26-08-2019 SUPERSEDES : 01 |
| Product Code : 22680 | Page 5 of 7 |

10. Stability and reactivity

10.1. Reactivity

Reactivity: Not established. **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 eve 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

Toxicity information: Not established.

12.2. Persistence - degradability

Persistence - degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Not established.

12.4. Mobility in soil

| Material Safety Data Sheet | MOLYCHEM |
|----------------------------|--|
| CITRIC ACID ANHYDROUS AR | VERSION : 02 DATE OF ISSUE : 26-08-2019 SUPERSEDES : 01 |
| Product Code : 22680 | Page 6 of 7 |

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.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental: Ensure all national/local regulations are observed. **regulations/legislation specific for the substance or mixture**

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

16. Other information

Abbreviations and acronyms: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

| Material Safety Data Sheet | MOLYCHEM |
|----------------------------|--|
| CITRIC ACID ANHYDROUS AR | VERSION : 02 DATE OF ISSUE : 26-08-2019 SUPERSEDES : 01 |
| Product Code : 22680 | Page 7 of 7 |

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 **Further information**: None.

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