



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

## Material Safety Data Sheet (MSDS)

### RXSOL-24-8587-104

Molecular Sieve Powder 4A Absorbent and Catalyst

#### 1. Product and Company Identification

[www.rxmarine.com](http://www.rxmarine.com)

|              |                          |
|--------------|--------------------------|
| Product Name | :Citric Acid Monohydrate |
| Part Number  | :RXSOL-19-3064-025       |

##### Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE OMAN & KENYA

|         |                                                        |
|---------|--------------------------------------------------------|
| Phone   | +91 22 20871200-1400                                   |
| Fax     | +91 22 200871500 ::AOH :0091 9821214367                |
| Email   | <a href="mailto:123@rxmarine.com">123@rxmarine.com</a> |
| Website | <a href="http://www.rxmarine.com">www.rxmarine.com</a> |

#### 2. Composition / Information on ingredients

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| Name of Substance | Cas Number | EC No     | Wt. %   | Symbol |
|-------------------|------------|-----------|---------|--------|
| Citric Acid       | 5949-29-1  | 201-069-1 | 99-100% | --     |

#### 3. Hazards Identification

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|                                       |                                                                                                                                                                                                                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                           | Warning                                                                                                                                                                                                                                                                               |
| Hazard Statements                     | May form combustible dust concentrations in air Causes serious eye irritation.                                                                                                                                                                                                        |
| Precautionary statements - prevention | Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsinglf eye irritation persists: Get medical advice/attention. |
| Store                                 | Store in a well-ventilated place. Keep container tightly closed.                                                                                                                                                                                                                      |
| Precautionary statements - response   | None identified                                                                                                                                                                                                                                                                       |

#### 4. First Aid Measures

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|                     |                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------|
| General Advice      | If symptoms persist, call a physician.                                                                            |
| Eye Contact         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| Skin Contact        | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| Inhalation:         | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| Ingestion:          | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.             |
| Notes to Physicians | Treat symptomatically.                                                                                            |

## 5. Fire-fighting Measures

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|                                                                                                   |                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                                                      | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.                                                                                                                                |
| Extinguishing media which must not be used for safety reasons:                                    | No information available                                                                                                                                                                                             |
| Special exposure hazards arising from the substance itself, combustion products, resulting gases: | Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ) |
| Special protective equipment for fire-fighters:                                                   | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.                                                                               |
| Additional information                                                                            | Flash Point 173.9 °C / 345 °F                                                                                                                                                                                        |

## 6. Accidental Release Measures

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|                                                                     |                                                                                                              |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation             |
| Environmental Precaution                                            | Should not be released into the environment.                                                                 |
| Methods and materials for containment and cleaning up               | Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. |

## 7. Handling and Storage

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|                         |                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. |
| Storage                 | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong bases.                                             |

## 8. Exposure controls and personal protection

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|                     |                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Control | Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Protection | Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hygiene measures    | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



Gloves



Suit

## 9. Physical and chemical properties

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|                                 |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Form                            | Solid                                                           |
| Colour                          | White                                                           |
| Odour                           | Odourless                                                       |
| Melting range                   | 135 - 152 °C / 275 - 305.6 °F                                   |
| Boiling point and boiling range | No Data Available                                               |
| Flash Point                     | 173.9 °C / 345 °F                                               |
| pH                              | No information available                                        |
| Evaporation rate                | Not applicable                                                  |
| Flammability (solid, gas)       | No information available                                        |
| Upper explosion limit           | No data available                                               |
| Lower explosion limit           | No data available                                               |
| Vapor pressure                  | No data available                                               |
| Relative vapor density          | No data available                                               |
| Density                         | 1.54 g/cm <sup>3</sup> (20 °C)                                  |
| Solubility in other solvents    | Soluble in water                                                |
| Partition coefficient: octanol  | No data available                                               |
| Autoignition temperature        | 345 °C / 653 °F                                                 |
| Decomposition                   | > 170°C                                                         |
| Viscosity, kinematic            | No data available                                               |
| Explosive properties            | No data available                                               |
| Oxidizing properties            | No data available                                               |
| Molecular weight                | 210.14                                                          |
| Molecular Formula               | C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> . H <sub>2</sub> O |

## 10. Stability and reactivity

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|                                    |                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------|
| Recativity                         | None known, based on information available                                          |
| Stability                          | Stable under normal conditions.                                                     |
| Possibility of hazardous reactions | None under normal processing.                                                       |
| Incompatible materials             | Strong oxidizing agents, Strong bases.                                              |
| Hazardous Decomposition            | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )                             |
| Condition to Avoid                 | Incompatible products. Excess heat. Temperatures above 170°C. Avoid dust formation. |

## 11. Toxicological information

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|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Route of Exposure         | No data available.                                                                       |
| Eyes                      | No data available.                                                                       |
| Skin                      | No data available                                                                        |
| Ingestion                 | No data available                                                                        |
| Inhalation                | No data available                                                                        |
| Chronic Exposure          | No data available                                                                        |
| Acute oral toxicity       | No data available                                                                        |
| Acute inhalation toxicity | No data available                                                                        |
| Acute dermal toxicity     | No data available                                                                        |
| Carcinogenicity           | The table below indicates whether each agency has listed any ingredient as a carcinogen. |
| Adverse Effects           | The toxicological properties have not been fully investigated.                           |

## 12. Ecological information

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|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| Environmental Effects          | No data available                                                     |
| Toxicity to fish               | No data available                                                     |
| Toxicity to daphnia and others | No data available                                                     |
| Toxicity to algae              | No data available                                                     |
| Biodegradability               | No information available.                                             |
| Persistence and degradability  | Persistence is unlikely                                               |
| Bioaccumulative potential      | No data available                                                     |
| Mobility in soil               | Will likely be mobile in the environment due to its water solubility. |

## 13. Disposal considerations

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|                |                                                                                                                                                                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Disposal | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 14. Transport information

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|                                 |               |
|---------------------------------|---------------|
| UN Number                       | Not regulated |
| Proper shipping name            | Not regulated |
| Transport hazard class(es) 8    |               |
| ADR/RID                         | -             |
| Subsidiary risk IMDG            | -             |
| Subsidiary risk IATA            | -             |
| Packing group                   |               |
| Packing group                   | -             |
| Environmental hazards           |               |
| Environmental hazards           | -             |
| Marine pollutant                | -             |
| ADR/RID                         |               |
| Hazard ID                       | -             |
| Tunnel Category                 | -             |
| IMDG                            |               |
| EmS Code                        | -             |
| IATA                            |               |
| Packing Instruction (Cargo)     | -             |
| Maximum quantity                | -             |
| Packing Instruction (Passenger) | -             |
| Maximum quantity                | -             |

## 15. Regulatory information

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|                            |                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------|
| Regulations                | This product does not contain any Proposition 65 chemicals. This product does not contain any DHS chemicals. |
| Chemical safety assessment | No data available.                                                                                           |
| Further information        | No data available.                                                                                           |

## 16. Other information

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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