



# RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

## Material Safety Data Sheet (MSDS)

**RXSOL-19-1519-025**

EDTA-Ethylene Diamine TetraAcetic Acid

### 1. Product and Company Identification

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

|              |                   |
|--------------|-------------------|
| Product Name | RXSOL-19-1519-025 |
| Product Type | EDTA 25 Kg        |

Synonym:

EDTA, Disodium dihydrate; Disodium ethylenediaminetetraacetate dihydrate; N,N,N',N'-Ethylenediaminetetraacetic Acid, Disodium Salt, Dihydrate; EDTA (Dihydrate); (Ethylenedinitrilo)tetraacetic Acid ,Disodium Salt Dihydrate.

Company Details:

RX MARINE INTERNATIONAL

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STOCK POINT : Kandla, Mumbai, Kolkata, Chennai, Visakhapatnam, Fujairah, Muscat, Nairobi

|       |                                                          |
|-------|----------------------------------------------------------|
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### 2. Composition / Information on ingredients

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Composition:

| Name                       | CAS #     | % by Weight |
|----------------------------|-----------|-------------|
| Edetate Disodium,Dihydrate | 6381-92-6 | 100         |

### 3. Hazards Identification

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|                                   |                                                                                                                                                                     |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Potential Acute Health Effects    | Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.                                                      |
| Potential Chronic Health Effects: |                                                                                                                                                                     |
| CARCINOGENIC EFFECTS              | Not available.                                                                                                                                                      |
| MUTAGENIC EFFECTS                 | Not available.                                                                                                                                                      |
| TERATOGENIC EFFECTS               | Not available.                                                                                                                                                      |
| DEVELOPMENTAL TOXICITY            | Not available. The substance may be toxic to upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. |

#### 4. First Aid Measures

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|                      |                                                                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact          | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.                                  |
| Skin Contact         | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.                                                                                            |
| Serious Skin Contact | Not available.                                                                                                                                                                                                                         |
| Inhalation           | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.                                                                                         |
| Serious Inhalation   | Not available.                                                                                                                                                                                                                         |
| Ingestion            | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. |
| Serious Ingestion    | Not available.                                                                                                                                                                                                                         |

#### 5. Fire-fighting Measures

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|                                                     |                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Flammability of the Product                         | May be combustible at high temperature.                                                                                   |
| Auto-Ignition Temperature                           | Not available.                                                                                                            |
| Flash Points                                        | Higher than 93.3°C (200°F).                                                                                               |
| Flammable Limits                                    | Not available.                                                                                                            |
| Products of Combustion                              | These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...). Some metallic oxides. |
| Fire Hazards in Presence of Various Substances      | Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.                                 |
| Explosion Hazards in Presence of Various Substances | Slightly explosive in presence of open flames and sparks. Nonexplosive in presence of shocks.                             |

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting Media and Instructions: |                                                                                                                                          |
| SMALL FIRE                            | Use DRY chemical powder.                                                                                                                 |
| LARGE FIRE                            | Use water spray, fog or foam. Do not use water jet.                                                                                      |
| Special Remarks on Fire Hazards       | As with most organic solids, fire is possible at elevated temperatures                                                                   |
| Special Remarks on Explosion Hazards  | 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

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|             |                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
| Large Spill | Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.                                               |

## 7. Handling and Storage

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|             |                                                                                                                                                                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions | Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals. |
| Storage     | Keep container tightly closed. Keep container in a cool, well-ventilated area.                                                                                                                                                                                                          |

## 8. Exposure controls and personal protection

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|                                              |                                                                                                                                                                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Controls                         | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection                          | Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.                                                                                                                                                               |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.                    |
| Exposure Limits                              | Not available.                                                                                                                                                                                                                                                                  |

## 9. Physical and chemical properties

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|                               |                                |
|-------------------------------|--------------------------------|
| Physical state and appearance | Solid. (Crystalline solid.)    |
| Odor                          | Not available.                 |
| Taste                         | Not available.                 |
| Molecular Weight              | 416.23 g/mole                  |
| Color                         | White.                         |
| pH (1% soln/water)            | 11.3 [Basic.]                  |
| Boiling Point                 | Not available.                 |
| Melting Point                 | Not available.                 |
| Critical Temperature          | Not available.                 |
| Specific Gravity              | Bulk Density: 0.77 (Water = 1) |
| Vapor Pressure                | Not applicable.                |
| Vapor Density                 | Not available                  |
| Volatility                    | Not available                  |
| Odor Threshold                | Not available                  |
| Water/Oil Dist. Coeff.        | Not available                  |
| Ionicity (in Water)           | Not available                  |
| Dispersion Properties         | See solubility in water.       |
| Solubility                    | Soluble in cold water.         |

## 10. Stability and reactivity

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|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Stability                               | The product is stable.                  |
| Instability Temperature                 | Not available.                          |
| Conditions of Instability               | Not available.                          |
| Incompatibility with various substances | Reactive with oxidizing agents, metals. |
| Special Remarks on Reactivity           | Non-corrosive in presence of glass.     |
| Special Remarks on Corrosivity          | Not available.                          |
| Polymerization                          | Will not occur.                         |

## 11. Toxicological information

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|                     |                                                            |
|---------------------|------------------------------------------------------------|
| Routes of Entry     | Absorbed through skin. Eye contact. Inhalation. Ingestion. |
| Toxicity to Animals | Acute oral toxicity (LD50): >2000 mg/kg [Rat].             |

|                                                   |                                                                                                                               |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Chronic Effects on Humans                         | May cause damage to the following organs: upper respiratory tract, skin, eyes.                                                |
| Other Toxic Effects on Humans                     | Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.                                           |
| Special Remarks on Toxicity to Animals            | Not available.                                                                                                                |
| Special Remarks on Chronic Effects on Humans      | Not available.                                                                                                                |
| Special Remarks on other Toxic Effects on Humans: |                                                                                                                               |
| Acute Potential Health effects:                   |                                                                                                                               |
| Skin                                              | May cause skin irritation.                                                                                                    |
| Eyes                                              | May cause eye irritation.                                                                                                     |
| Inhalation                                        | May cause irritation of the respiratory tract.                                                                                |
| Ingestion                                         | May cause gastrointestinal tract irritation. The toxicological properties of this substance have not been fully investigated. |

## 12. Ecological information

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|                                                   |                                                                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Ecotoxicity:                                      |                                                                                                                       |
| Ecotoxicity in water (LC50):                      | 760 mg/l 96 hours [Bull gill sunfish]. 59.8 mg/l 96 hours [Fathead Minnow].                                           |
| BOD5 and COD                                      | Not available.                                                                                                        |
| Products of Biodegradation                        | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| Toxicity of the Products of Biodegradation        | The product itself and its products of degradation are not toxic.                                                     |
| Special Remarks on the Products of Biodegradation | Not available.                                                                                                        |

## 13. Disposal considerations

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|                |                                                                                                          |
|----------------|----------------------------------------------------------------------------------------------------------|
| Waste Disposal | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
|----------------|----------------------------------------------------------------------------------------------------------|

## 14. Transport information

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|                                  |                                                |
|----------------------------------|------------------------------------------------|
| DOT Classification               | Not a DOT controlled material (United States). |
| Identification                   | Not applicable.                                |
| Special Provisions for Transport | Not applicable.                                |

## 15. Regulatory information

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|                                               |                                                                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Federal and State Regulations                 | No products were found.                                                                                           |
| Other Regulations:                            |                                                                                                                   |
| OSHA                                          | Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).                                      |
| Other Classifications:                        |                                                                                                                   |
| WHMIS (Canada)                                | Not controlled under WHMIS (Canada).                                                                              |
| DSCL (EEC)                                    | This product is not classified according to the EU regulations. Not applicable.                                   |
| HMIS (U.S.A.):                                |                                                                                                                   |
| Health Hazard                                 | 1                                                                                                                 |
| Fire Hazard                                   | 1                                                                                                                 |
| Reactivity                                    | 0                                                                                                                 |
| Personal Protection                           | E                                                                                                                 |
| National Fire Protection Association (U.S.A.) |                                                                                                                   |
| Health                                        | 1                                                                                                                 |
| Flammability                                  | 1                                                                                                                 |
| Reactivity                                    | 0                                                                                                                 |
| Specific hazard:                              |                                                                                                                   |
| Protective Equipment                          | Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses. |

## 16. Other information

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The information contained in this literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company however, can not assume any liability or risk in the use of its chemical product since the conditions of use are beyond our control.

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