

## (I) Chemical Product and Company Identification

**Item Number:** C627557

**Item Name:** Citrate Buffer Solution, 1M, pH 4.50

**Synonyms:**

**Nouresh'shark Co, Fine Chemicals, Egypt**  
 10th. of Ramadan City, 3rd. Industrial Zone, A6, Segment Nr. 7/ 136  
 Tel Fax: +2015-412636, 412637 and 412638

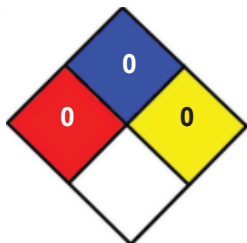
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 and 412638. Mobile:+201006664429  
 For emergency, call: +201006664471

## (II) Composition and Information on Ingredients

CAS Number	EC Number	Formula	Frl Wt (g/ Mole)	Purity (%)	Shelf Life
Not Available	Not Available	Not Available	Not Available	Not Available	5 Years

## (III) Hazards Identification

<b>Health</b>	0
<b>Flammability</b>	0
<b>Reactivity</b>	0
<b>Personal Protection</b>	E





#### Potential Health Effects:

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

**Target Organ:** Not Available

#### Chronic Effects:

Not Available

### (IV) First Aid Measures

**If Inhaled:** If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**If On Skin:** Wash off with soap and plenty of water. Consult a physician.

**If In Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If Swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### (V) Fire-Fighting Measures

**Flash Point (°C):** Not Available

**Auto-Ignition Temperature(°C):** Not Available

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment for Fire-Fighters:** Wear self contained breathing apparatus for fire fighting if necessary.

### (VI) Accidental Release Measures

**Personal Precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Prevent further leakage or spillage if safe to do so.

## (VII) Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of dust, vapour or mist. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage Conditions:** Stored at 23 °C maximum, in well ventilated, dry place. Keep container tightly closed away from air, moisture and light.

## (VIII) Exposure Controls/ Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate standards

## (IX) Physical and Chemical Properties

**Shape:** Liquid

**Color:** Liquid

**Water Solubility:** Soluble

**Density (Gm/ CC):** Not Available

**Melting Point (°C):** Not Available

**Boiling Point (°C):** Not Available

**Flash Point (°C):** Not Available

**Viscosity (Centipoise):** Not Available

**Surface Tension (Dynes/cm):** Not Available

**Vapor Pressure:** Not Available

**Refractive Index:** Not Available

**Optical Activity [a]<sub>D20</sub>:** Not Available



## (X) Stability and Reactivity Data

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

**Incompatibilities with Other Materials:** Not Available

**Hazardous Combustion or Decomposition Products:** May be hazardous fumes and vapors

**Conditions to Avoid:** Direct light, open air, moisture, bad ventilation, heating

## (XI) Toxicological Information

### Toxicity Data:

Not Available

### Carcinogenicity Data:

**OSHA:** Not Available

**IARC:** Not Available

**Carcinogenicity (NTP):** Not Available

**ACGIH:** Not Available



## (XII) Ecological Information

**Toxicity to Aquatic Organisms:** Not Available

**Biodegradability:** Not Available

**Effect on Soil:** Not Available

**PBT and vPvB Assessment:** Not Available

**Other adverse effects:** Not Available

## (XIII) Disposal Considerations

**Product:** Follow legal and local regulations. Consult a professional waste disposal service.

**Contaminated Packaging:** Dispose as a used package

## (XIV) Transport Information

**DOT\_Shipping Name:** Not Available

**DOT\_UN Number:** Not Available

**DOT\_Hazard Class:** Not Available

**DOT\_Packing Group:** Not Available

**DOT\_Limited Quantity:** Not Available

**IMDG\_Shipping Name:** Not Available

**IMDG\_UN Number:** Not Available

**IMDG\_Hazard Class:** Not Available

**IMDG\_Packing Group:** Not Available

**IMDG\_Limited Quantity:** Not Available

**IATA\_Shipping Name:** Not Available

**IATA\_UN Number:** Not Available

**IATA\_Hazard Class:** Not Available

**IATA\_Packing Group:** Not Available

**IATA\_Limited Quantity:** Not Available

**Transport Pictograms:**



## (XV) Regulatory Information

### Exposure Maximum Limit:

OSHA List of Hazardous Materials (USA): Not Available

NIOSH REL List (USA): Not Available

REACH Restriction List (European Union): Not Available

Threshold Limit Values (TLV) of ACGIH (USA): Not Available

### National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 0

Reactivity: 0

Specific hazard:

### Hazardous Materials Identification System (USA):

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

### Packaging and labeling was according to (GHS):

Hazard Statement(s): Not Available

Precautionary statement(s): Not Available

## (XVI) Other Information

The information on this Material Safety Data Sheet is correct to the best of our knowledge as of the date of publication. This information should be used only as a guide and is not a guarantee of any specific properties. All chemicals should be handled by qualified personnel using proper handling precautions. Nouresh'shark Co cannot accept liability for any loss, damage, or injury that results from the use of this chemical. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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